

SEQUENCE LISTING

<110> University of Utah Research Foundation
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<120> Mu-Conopeptides

<130> 2314-242

<150> US 60/219,619

<151> 2000-07-21

<150> US 60/245,157

<151> 2000-11-03

<150> US 60/264,319

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<150> US 60/277,270

<151> 2001-03-21

<160> 520

<170> PatentIn version 3.0

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<213> Conus arenatus

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<211> 67

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<213> Conus arenatus

<400> 2

Met Met Ser Lys Leu Gly Val Phe Leu Thr Ile Cys Met Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Phe Ile Thr Glu His His Pro Leu Phe

35 40 45

Asp Pro Val Lys Arg Cys Cys Glu Arg Pro Cys Asn Ile Gly Cys Val
50 55 60

Pro Cys Cys
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<210> 3
<211> 14
<212> PRT
<213> Conus arenatus

<220>
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<222> (1)..(14)
<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5 an
d 12 is Pro or Hy

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<400> 3
Cys Cys Xaa Arg Xaa Cys Asn Ile Gly Cys Val Xaa Cys Cys
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atttcatctg atcaacatct ctttttgat ctcataaac ggtgctgcga gttgccatgc 180
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cgag                                              244
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<210> 5
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<213> Conus atlanticus

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Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Val His
20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Ile Ser Ser Asp Gln His Leu Phe
35 40 45

Phe Asp Leu Ile Lys Arg Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe
50 55 60

Cys Val Pro Cys Cys
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<210> 6
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<212> PRT
<213> Conus atlanticus

<220>
 <221> PEPTIDE
 <222> (1)...(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 8
 and 13 is Pro or Hyp

<400> 6
 Cys Cys Xaa Leu Xaa Cys Gly Xaa Gly Phe Cys Val Xaa Cys Cys
 1 5 10 15

<210> 7
 <211> 310
 <212> DNA
 <213> Conus aurisiacus

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 310

<210> 8
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 <213> Conus aurisiacus

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 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30

Glu Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45

Asn Gln Lys Arg Met Cys Cys Gly Glu Gly Arg Lys Cys Pro Ser Tyr
 50 55 60

Phe Arg Asn Ser Gln Ile Cys His Cys Cys
 65 70

<210> 9
 <211> 22
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)...(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is
 Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr,
 di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 9
 Met Cys Cys Gly Xaa Gly Arg Lys Cys Xaa Ser Xaa Phe Arg Asn Ser
 1 5 10 15

Gln Ile Cys His Cys Cys

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<210> 10
<211> 257
<212> DNA
<213> Conus aurisiacus

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gacatttcat ctgagcagca tcgcttgttc aatcagaaaa gaaggtgctg ccggtgccca 180
tgcccccgac aaatcgacgg tgaatattgt ggctgttgcc ttggatgata accgtgttga 240
tgaccaactt tctcgag 257

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<211> 75
<212> PRT
<213> Conus aurisiacus

<400> 11
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1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Ile Asp Gly Asp Gln Ser Val Asp
20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Arg
35 40 45

Leu Phe Asn Gln Lys Arg Arg Cys Cys Arg Trp Pro Cys Pro Arg Gln
50 55 60

Ile Asp Gly Glu Tyr Cys Gly Cys Cys Leu Gly
65 70 75

<210> 12
<211> 19
<212> PRT
<213> Conus aurisiacus

<220>
<221> PEPTIDE
<222> (1)..(19)
<223> Xaa at residue 13 is Glu or gamma-carboxy Glu; Xaa at residue 3 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or Bromo Trp; Xaa at residue 14 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 12
Cys Cys Arg Xaa Xaa Cys Xaa Arg Gln Ile Asp Gly Xaa Xaa Cys Gly
1 5 10 15

Cys Cys Leu

<210> 13
<211> 262
<212> DNA
<213> Conus aurisiacus

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 gacatttcat ctgagcagta tcccttgaaaataagagac aaaagtgtg cactggaaag 180
 aagggttcat gctccggcaa agcatgcaaa aatctcaaat gttgctctgg acgataacgt 240
 gttgatgacc aactttctcg ag 262

 <210> 14
 <211> 78
 <212> PRT
 <213> Conus aurisiacus

 <400> 14
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

 Leu Phe Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30

 Gln Pro Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro
 35 40 45

 Leu Phe Asp Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys
 50 55 60

 Ser Gly Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

 <210> 15
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

 <220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

 <400> 15
 Xaa Lys Cys Cys Thr Gly Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

 Lys Asn Leu Lys Cys Cys Ser
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 <210> 16
 <211> 232
 <212> DNA
 <213> Conus aurisiacus

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 <210> 17
 <211> 68
 <212> PRT
 <213> Conus aurisiacus

<400> 17
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Leu Asp
 20 25 30

Arg His Ala Glu Arg Met His Asp Gly Ile Ser Pro Lys Arg His Pro
 35 40 45

Trp Phe Asp Pro Val Lys Arg Cys Cys Lys Val Gln Cys Glu Ser Cys
 50 55 60

Thr Pro Cys Cys
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<210> 18
 <211> 13
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(13)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 11 is Pro or Hyp

<400> 18
 Cys Cys Lys Val Gln Cys Xaa Ser Cys Thr Xaa Cys Cys
 1 5 10

<210> 19
 <211> 241
 <212> DNA
 <213> Conus bandus

<400> 19
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<210> 20
 <211> 70
 <212> PRT
 <213> Conus bandus

<400> 20
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Met Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Arg Pro Ala Glu Arg Ser Gln Asp Val Ser Ser Glu Gln His Pro Leu
 35 40 45

Phe Asp Pro Val Lys Arg Cys Cys Asn Trp Pro Cys Ser Met Gly Cys
 50 55 60

Ile Pro Cys Cys Tyr Tyr
65 70

<210> 21
<211> 16
<212> PRT
<213> Conus bandus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 4 is Trp or
bromo-Trp; Xaa at residue 15 and 16 is Tyr, 125I-Tyr, mono-iodo-
Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 21
Cys Cys Asn Xaa Xaa Cys Ser Met Gly Cys Ile Xaa Cys Cys Xaa Xaa
1 5 10 15

<210> 22
<211> 298
<212> DNA
<213> Conus betulinus

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ttgcgaattt ccatgccatg gatgcgtccc ttgttgctgg ccttaataac gtgtggatga 240
ccaactgtgt tatcacggcc acgtcaagtg tctaataaatg aagtaaaatg attgcagt 298

<210> 23
<211> 67
<212> PRT
<213> Conus betulinus

<400> 23
Met Met Ser Lys Leu Gly Val Leu Leu Thr Phe Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Ile Ser Ser Glu Gln His Pro Leu Phe Asp
35 40 45

Pro Val Lys Arg Cys Cys Glu Leu Pro Cys His Gly Cys Val Pro Cys
50 55 60

Cys Trp Pro
65

<210> 24
<211> 15
<212> PRT
<213> Conus betulinus

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 1

1 and 15 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 24
 Cys Cys Xaa Leu Xaa Cys His Gly Cys Val Xaa Cys Cys Xaa Xaa
 1 5 10 15

<210> 25
 <211> 298
 <212> DNA
 <213> Conus betulinus

<400> 25
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<210> 26
 <211> 68
 <212> PRT
 <213> Conus betulinus

<400> 26
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Phe Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg His
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ser Pro Glu Gln His Pro Ser Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Gly Leu Pro Cys Asn Gly Cys Val Pro Cys
 50 55 60
 Cys Trp Pro Ser
 65

<210> 27
 <211> 16
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5, 11 and 15 is Pro or Hyp; Xaa at residue 14 is T
 rp or bromo-Tr

<400> 27
 Cys Cys Gly Leu Xaa Cys Asn Gly Cys Val Xaa Cys Cys Xaa Xaa Ser
 1 5 10 15

<210> 28
 <211> 282
 <212> DNA
 <213> Conus betulinus

<400> 28
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 agagcgcatg cagtatgaca tgttacgtgc agtgaatccc tggtttgcgatc ccgtcaaaag 180
 gtgctgctcg aggaactgcg cagtatgcat cccttgcgtgc ccgaattggc cagcttgatt 240
 atcgcggcca agagtctaata gaataagtaa aacgattgca gt 282

 <210> 29
 <211> 71
 <212> PRT
 <213> Conus betulinus

 <400> 29
 Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Tyr Met Leu Leu Phe
 1 5 10 15

 Pro Phe Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

 Leu Glu Arg Met Gln Tyr Asp Met Leu Arg Ala Val Asn Pro Trp Phe
 35 40 45

 Asp Pro Val Lys Arg Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Pro
 50 55 60

 Cys Cys Pro Asn Trp Pro Ala
 65 70

 <210> 30
 <211> 18
 <212> PRT
 <213> Conus betulinus

 <220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 11, 14 and 17 is Pro or Hyp; Xaa at residue 16 is
 Trp or bromo-Tr

 <400> 30
 Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Xaa Cys Cys Xaa Asn Xaa
 1 5 10 15

 Xaa Ala

 <210> 31
 <211> 325
 <212> DNA
 <213> Conus bullatus

 <400> 31
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 agagcgatcg caggacgaca tttcatctga gcagaattcc ttgcttgcgttga agagagttac 180

 tgacaggtgc tgcaaaggga agagggaatg cggcagatgg tgcagagatc actcgcttg 240

 ttgcggtcga cgataagctg ttgatgacca gctttgttat cacggctaca tcaagtgtct 300

 agtgaataag taaaatgatt gcagt 325

 <210> 32

<211> 77
<212> PRT
<213> Conus bullatus

<400> 32
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1 5 10 15
Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30
Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Ser Leu Leu
35 40 45
Glu Lys Arg Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Glu Cys Gly
50 55 60
Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
65 70 75

<210> 33
<211> 23
<212> PRT
<213> Conus bullatus

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 11 is Glu or gamma-carboxy Glu; Xaa at residue 15
is Trp or bromo-Tr

<400> 33
Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Xaa Cys Gly Arg Xaa Cys
1 5 10 15

Arg Asp His Ser Arg Cys Cys
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<210> 34
<211> 326
<212> DNA
<213> Conus bullatus

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tgacaggtgc tgcaaaggga agaggggtg cggcagatgg tgccagagatc actcacgttg 240
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tagtgattaa gtaaaaacgtt tgcaatgtt 326

<210> 35
<211> 77
<212> PRT
<213> Conus bullatus

<400> 35
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Phe Ala Leu Arg Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Pro Leu Leu
 35 40 45

Glu Lys Arg Val Gly Asp Arg Cys Cys Lys Gly Lys Arg Gly Cys Gly
 50 55 60

Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 36

<211> 23

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 15 is Trp or bromo-Trp

<400> 36

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 1 5 10 15

Arg Asp His Ser Arg Cys Cys
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<210> 37

<211> 331

<212> DNA

<213> Conus bullatus

<400> 37

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gcttctgttt ccccttttg ctcttccgca ggatggagat caacctgcag accgacactgc 120

agagcgtatg caggacgaca tttcatctga gcagaatccc ttgcttgaga agagagttgg 180

tgaaagggtgc tgcaaaaacg ggaagagggg gtgcggcaga tggtcagag atcactcacg 240

tttgtgcggt cgacgataac gtgttgatga ccgaggcttt cgtttatcacg gctacatcaa 300

gtgtcttagtg aataagtaaa acgattgcag t 331

<210> 38

<211> 78

<212> PRT

<213> Conus bullatus

<400> 38

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Pro Leu Leu
 35 40 45

Glu Lys Arg Val Gly Glu Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys
 50 55 60

Gly Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg

65 70 75

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<210> 39
<211> 24
<212> PRT
<213> Conus bullatus

<220>
<221> PEPTIDE
<222> (1)..(24)
<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 16 i
      s Trp or bromo-Tr

<400> 39
Val Gly Xaa Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys Gly Arg Xaa
1                 5                 10                 15

Cys Arg Asp His Ser Arg Cys Cys
20

<210> 40
<211> 337
<212> DNA
<213> Conus bullatus

<400> 40
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agagcgtatg caggacgacc tttcatctga gcagcatccc ttgtttgaga agagaattgt     180
tgacaggtgc tgcaacaaag ggaacggaa gaggggggtgc agcagatggt gcagagatca     240
ctcacgttgt tgcggtcgac gatgaactgt tgatgaccga ggctttgggtt atcacggcta     300
catcaagtgt cttagtgaata agtaaaaacga ttgcagt                             337

<210> 41
<211> 80
<212> PRT
<213> Conus bullatus

<400> 41
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1                 5                 10                 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
20                 25                 30

Ala Glu Arg Met Gln Asp Asp Leu Ser Ser Glu Gln His Pro Leu Phe
35                 40                 45

Glu Lys Arg Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg
50                 55                 60

Gly Cys Ser Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
65                 70                 75                 80

<210> 42
<211> 26
<212> PRT
<213> Conus bullatus

<220>

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<221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 18 is Trp or bromo-Trp

<400> 42
 Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg Gly Cys Ser
 1 5 10 15

Arg Xaa Cys Arg Asp His Ser Arg Cys Cys
 20 25

<210> 43
 <211> 337
 <212> DNA
 <213> Conus bullatus

<400> 43
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 catcaagtat cttagtgaata agtaaaaacga ttgcagt 337

<210> 44
 <211> 77
 <212> PRT
 <213> Conus bullatus

<400> 44
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

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 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Asn Pro Leu Phe Glu Lys
 35 40 45

Ser Val Gly Cys Cys Arg Pro Lys Pro Asn Gly Gln Met Met Cys Asp
 50 55 60

Arg Trp Cys Glu Lys Asn Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 45
 <211> 27
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 21 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 19 is Trp or bromo-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 45
 Val Gly Leu Xaa Cys Cys Arg Xaa Lys Xaa Asn Gly Gln Met Met Cys

1

5

10

15

Asp Arg Xaa Cys Xaa Lys Asn Ser Arg Cys Cys
 20 25

<210> 46
 <211> 323
 <212> DNA
 <213> Conus bullatus
 <400> 46
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 gcttctgttt ccccttactg ctcttccgat ggatggagat caatctgttag accgacacctgc 120
 agaacgtatg caggacgacc tttcatctga gcagcatccc ttgtttgttc agaaaagaag 180
 gtgttgcggc gaaggcttga catgccccag atattggaaa aacagtccaga tttgtgtttc 240
 ttgttaaatg acaacgtgtc gatgaccaac ttccgttatca cgactacgcc aagtgtctaa 300
 tgaataagta aaacgattgc agt 323

<210> 47
 <211> 74
 <212> PRT
 <213> Conus bullatus

<400> 47
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Leu Ser Ser Glu Gln His Pro Leu Phe
 35 40 45
 Val Gln Lys Arg Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr
 50 55 60

Trp Lys Asn Ser Gln Ile Cys Ala Cys Cys
 65 70

<210> 48
 <211> 22
 <212> PRT
 <213> Conus bullatus
 <220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is Pro or Hyp; Xaa at residue 13 is Trp or bromo-Trp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 48
 Arg Cys Cys Gly Xaa Gly Leu Thr Cys Xaa Arg Xaa Xaa Lys Asn Ser
 1 5 10 15

Gln Ile Cys Ala Cys Cys
 20

<210> 49
 <211> 322

<212> DNA

<213> Conus bullatus

<400> 49

caagaggggat cgatacgagt tcatgatgtc taaaactggaa gtcttggta ccatctgtct	60
gcttcgttt ccccttttg ctcttccgca ggatggagat caacctgcag accgacctgc	120
tgagcgtatg caggacgaca tttcatctga gcaggatccc ttgtttgttc agaaaagaag	180
gtgttgcggc gaaggcttga catgccccag atattggaaa aacagtcaga tttgtgcttg	240
ttgttaaatg acaacgtgtg atgaccaact tcggtatcac gactacgcca agtgtcta	300
gaataagtaa aacgattgca gt	322

<210> 50

<211> 74

<212> PRT

<213> Conus bullatus

<400> 50

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe			
1	5	10	15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro		
20	25	30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asp Pro Leu Phe		
35	40	45

Val Gln Lys Arg Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr		
50	55	60

Trp Lys Asn Ser Gln Ile Cys Ala Cys Cys	
65	70

<210> 51

<211> 22

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is Pro or Hyp; Xaa at residue 13 is Trp or bromo-Trp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 51

Arg Cys Cys Gly Xaa Gly Leu Thr Cys Xaa Arg Xaa Xaa Lys Asn Ser			
1	5	10	15

Gln Ile Cys Ala Cys Cys	
20	

<210> 52

<211> 238

<212> DNA

<213> Conus capitaneus

<400> 52

ggatccatga tgtctaaact gggagtcttg gtgaccatct gcctgcttct gtttccctt	60
gctgcttttc cactggatgg aaatcaacct gcagaccacc ctgcaaagcg tacgcaagat	120

gacagttcag ctgccctgat caataccctgg attgatcatt cccattcttgc tgcaaggac 180
 tgcggtaag attgtgttgg ttgttgccgg taacgtgttgc atgaccaact ttctcgag 238

<210> 53
 <211> 70
 <212> PRT
 <213> Conus capitaneus

<400> 53
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Val Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Ala Ala Phe Pro Leu Asp Gly Asn Gln Pro Ala Asp
 20 25 30

His Pro Ala Lys Arg Thr Gln Asp Asp Ser Ser Ala Ala Leu Ile Asn
 35 40 45

Thr Trp Ile Asp His Ser His Ser Cys Cys Arg Asp Cys Gly Glu Asp
 50 55 60

Cys Val Gly Cys Cys Arg
 65 70

<210> 54
 <211> 15
 <212> PRT
 <213> Conus capitaneus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 8 is Glu or gamma-carboxy Glu

<400> 54
 Ser Cys Cys Arg Asp Cys Gly Xaa Asp Cys Val Gly Cys Cys Arg
 1 5 10 15

<210> 55
 <211> 323
 <212> DNA
 <213> Conus characteristicus

<400> 55
 caagagggat cgatagcagt tcattatgtc taaaactggga gtcttggta ccatctgtct 60
 gcttcgttt ccccttactg ctcttccaaat ggatggagat caacctgcag accaacctgc 120
 agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata tgagaaaaag 180
 gtgttgcggc cccggcgggtt catgccccgt atatttcaga gacaatttta tttgtggttg 240
 ttgttaaatg acaacgtgtc gatgaccaac ttcattatca cgactacgccc aagtgtctaa 300
 tgaataagta aaatgattgc agt 323

<210> 56
 <211> 74
 <212> PRT
 <213> Conus characteristicus

<400> 56

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Asp Met Arg Lys Arg Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60

Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 57

<211> 21

<212> PRT

<213> Conus characteristicus

<220>

<221> PEPTIDE

<222> (1)..(21)

<223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue 11 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 57

Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp Asn Phe
 1 5 10 15

Ile Cys Gly Cys Cys
 20

<210> 58

<211> 316

<212> DNA

<213> Conus characteristicus

<400> 58

caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccatctgtct 60

gcttcgttt ccccttactg ctcttccgat ggatggagat gaacctgcaa accgacctgt 120

c gagcgtatg caggacaaca tttcatctga gcagtatccc ttgtttgaga agagacgaga 180

t t gttgcact ccgccgaaga aatgcaaaga ccgacaatgc aaaccccaga gatgttgcgc 240

tggacgataa cgtgttgatg accaacttta tcacggctac gtcaagtgtt tagtgaataa 300

gtaaaatgat tgcagt 316

<210> 59

<211> 75

<212> PRT

<213> Conus characteristicus

<400> 59

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe

35

40

45

Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60

Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 60

<211> 22

<212> PRT

<213> Conus characteristicus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 60

Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Xaa Gln Arg Cys Cys Ala
 20

<210> 61

<211> 314

<212> DNA

<213> Conus characteristicus

<400> 61

caagaggat cgatagcagt tcatgatgtc taaactggga gtcttggta ccatctgtct 60

gcttcgttt ccccttactg ctcttccact ggatggagat caacctgcag atcaatctgc 120

agagcgacct gcagagcgta cgccaggacga cattcagcag catccgttat atgatccgaa 180

aagaaggtgt tgccgttatac catgccccga cagctgccac ggatcttgct gctataagt 240

ataaacatgtt gatggccagc tttgttatca cggccacgtc aagtgtctta atgaataagt 300

aaaacgattg cagt 314

<210> 62

<211> 72

<212> PRT

<213> Conus characteristicus

<400> 62

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ser
 20 25 30

Ala Glu Arg Pro Ala Glu Arg Thr Gln Asp Asp Ile Gln Gln His Pro
 35 40 45

Leu Tyr Asp Pro Lys Arg Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser
 50 55 60

Cys His Gly Ser Cys Cys Tyr Lys
 65 70

<210> 63

<211> 18

<212> PRT

<213> Conus characteristicus

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 and 17 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 63

Arg Cys Cys Arg Xaa Xaa Cys Xaa Asp Ser Cys His Gly Ser Cys Cys
1 5 10 15

Xaa Lys

<210> 64

<211> 292

<212> DNA

<213> Conus characteristicus

<400> 64

caagaggat cgatagcagt tcatgatgtc taaaactggga gccttggta ccatctgtct 60

acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacacctgc 120

acagcgtctg caggaccgca ttccaactga agatcatccc ttatttgatc ccaacaaacg 180

gtgttgcgg ccgggtggcat gcaacatggg atgcaagcct tggtgtggat gaccagctt 240

gttatcgccg tcttcatgaa gtgtcttaat gaataagtaa aatgattgca gt 292

<210> 65

<211> 69

<212> PRT

<213> Conus characteristicus

<400> 65

Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30Ala Gln Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
35 40 45Asp Pro Asn Lys Arg Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys
50 55 60Lys Pro Cys Cys Gly
65

<210> 66

<211> 15

<212> PRT

<213> Conus characteristicus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 3, 4 and 13 is Pro or Hyp

<400> 66

Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Lys Xaa Cys Cys

1

5

10

15

<210> 67
<211> 293
<212> DNA
<213> Conus characteristicus

<400> 67
caagaggat cgatagcagt tcatgatgtc taaactggga gccttggta ccatctgtct 60
acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
agagcgtctg catgaccgccc ttccaactga aaatcatccc ttatatgatc ccgtcaaacg 180
gtgttgcgat gattcggaat gcgactattc ttgctggcct tgctgtatgt ttggataacc 240
tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 68
<211> 71
<212> PRT
<213> Conus characteristicus

<400> 68
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30

Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
50 55 60

Trp Pro Cys Cys Met Phe Gly
65 70

<210> 69
<211> 17
<212> PRT
<213> Conus characteristicus

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 69
Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Met
1 5 10 15

Phe

<210> 70
<211> 232
<212> DNA
<213> Conus characteristicus

<400> 70
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gttccccc 60

actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg taagcaggac 120
 gtttcatctg aacagoatcc cttctttgat cccgtcaaac ggtgttgccg ccgggttac 180
 atgggatgca tcccttggtg cttaaacgt gttgatgacc aactttctcg ag 232

 <210> 71
 <211> 68
 <212> PRT
 <213> Conus characteristicus

 <400> 71
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

 Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

 Arg Pro Ala Glu Arg Lys Gln Asp Val Ser Ser Glu Gln His Pro Phe
 35 40 45

 Phe Asp Pro Val Lys Arg Cys Cys Arg Arg Cys Tyr Met Gly Cys Ile
 50 55 60

 Pro Cys Cys Phe
 65

 <210> 72
 <211> 14
 <212> PRT
 <213> Conus characteristicus

 <220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Ty
 r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

 <400> 72
 Cys Cys Arg Arg Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10
 <210> 73
 <211> 323
 <212> DNA
 <213> Conus circumcisus

 <400> 73
 caagaaggat cgatagcagt tcattatgtc taaaactgggg gtattgttga ccatctgtct 60

 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120

 agatcgtatg caggacgaca ttcatctga gcagtatccc ttgtttgata agagacgaaa 180

 gtgttgcggc aaagacgggc catgccccaa atattcaaa gacaatttta ttgtgtttg 240

 ttgttaaatg acaacgtgtc gatgaccaac ttctgttatca cgattcgcca agtgtctaa 300

 tgaataagta aaatgattgc agt 323

 <210> 74
 <211> 74
 <212> PRT
 <213> Conus circumcisus

<400> 74
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Asp Lys Arg Arg Lys Cys Cys Gly Lys Asp Gly Pro Cys Pro Lys Tyr
 50 55 60

Phe Lys Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 75

<211> 23

<212> PRT

<213> Conus circumcisus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 9 and 11 is Pro or Hyp; Xaa at residue 13 is Tyr,
 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-T
 Y

<400> 75

Arg Lys Cys Cys Gly Lys Asp Gly Xaa Cys Xaa Lys Xaa Phe Lys Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 76

<211> 293

<212> DNA

<213> Conus dalli

<400> 76

caagaggat cgatacgagt tcatgatgtc taaaactggga gccttggta ccatctgtct 60

acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacacctgc

agagcgtctg caggaccgc ttccaactga aaatcatccc ttatatgatc ccgtcaaacg 180

gtgttgcgt gattcggaat ggcgactattc ttgctggcct tgctgttattt tatcataacc 240

tttgttatcg cggcctcatc aagtgtcaaa tgaataagta aaatgattgc agt 293

<210> 77

<211> 71

<212> PRT

<213> Conus dalli

<400> 77

Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Ile Leu Ser
 65 70

<210> 78
<211> 18
<212> PRT
<213> Conus dalli

<220>
<221> PEPTIDE
<222> (1)..(18)
<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 78
Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15

Leu Ser

<210> 79
<211> 299
<212> DNA
<213> Conus dalli

<400> 79
caagagggtt cgatagcagt tcatgatgtc taaaactggga gtcttggttga ccatttgtct 60
acttctgttt ccccttaactg ctgttccact ggatggagat cagcctgcag accgacactgc 120
agagcgtatg caggacggca tttcatctga acatcatcca ttttttgatt ccgtcaaaaa 180
gaaacaacag tggtgcccgc cggtggcatg caacatggga tgcgagcatt gttgtggatg 240
accagctttg ttatcgccgc tcatgaagtg tcctaatgaa taagtaaaac gattgcagt 299

<210> 80
<211> 72
<212> PRT
<213> Conus dalli

<400> 80
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45

Asp Ser Val Lys Lys Gln Gln Cys Cys Pro Pro Val Ala Cys Asn
 50 55 60

Met Gly Cys Glu Pro Cys Cys Gly
 65 70

<210> 81
<211> 17

<212> PRT
<213> Conus dalli

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 5, 6 and 15 is Pro or Hyp

<400> 81
Xaa Gln Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Xaa Xaa Cys
1 5 10 15

Cys

<210> 82
<211> 290
<212> DNA
<213> Conus dalli

<400> 82
caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggta tcataatgtct 60
atttctgttt ccccttactg ctgttcagct caatggagat cagcctgcag accaatctgc 120
agagcgtatg caggacaaaa tttcatctga acatcatccc tttttgatc ccgtcaaacg 180
ttgttgcaac gcgggggttt gccgcttcgg atgcacgcct tgttgttggt gaccagctt 240
gttatcgccg cctcatcaag tgtctaattga ataagtaaaa tgattgcagt 290
<210> 83
<211> 69
<212> PRT
<213> Conus dalli

<400> 83
Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Phe Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Gln Leu Asn Gly Asp Gln Pro Ala Asp Gln Ser
20 25 30

Ala Glu Arg Met Gln Asp Lys Ile Ser Ser Glu His His Pro Phe Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys
50 55 60

Thr Pro Cys Cys Trp
65

<210> 84
<211> 16
<212> PRT
<213> Conus dalli

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 13 is Pro or Hyp; Xaa at residue 16 is Trp or bromo-Tr

<400> 84
Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys Thr Xaa Cys Cys Xaa
1 5 10 15

gcccccgata ctccaacggt aaacttgttt gttttgttg ccttggatga taatgtgttg 240
 atgaccaact ttgttatcac ggctacgtca agtgtctact gaataagtaa aatgattgca 300
 gta 303

<210> 89
 <211> 67
 <212> PRT
 <213> Conus ermineus

<400> 89
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Phe
 1 5 10 15

Pro Ile Thr Ala Leu Leu Met Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Thr Glu Asp Asp Ile Ser Ser Asp Tyr Ile Pro Cys Cys
 35 40 45

Ser Trp Pro Cys Pro Arg Tyr Ser Asn Gly Lys Leu Val Cys Phe Cys
 50 55 60

Cys Leu Gly
 65

<210> 90
 <211> 20
 <212> PRT
 <213> Conus ermineus

<220>
 <221> PEPTIDE
 <222> (1)..(20)
 <223> Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue4 is Trp or
 bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-i
 odo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 90
 Cys Cys Ser Xaa Xaa Cys Xaa Arg Xaa Ser Asn Gly Lys Leu Val Cys
 1 5 10 15

Phe Cys Cys Leu
 20

<210> 91
 <211> 241
 <212> DNA
 <213> Conus generalis

<400> 91
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctggttct gtttcccctt 60
 actgctcttc cactggatgg agaacaacct gtagaccgac atgccgagca tatgcaggat
 gacaattcag ctgcacagaa cccctgggtt attgccatca gacagtgttg cacgttctgc 120
 aactttggat gccaaccttg ttgcctcacc tgataacgtg ttgatgacca actttctcga 180
 g 240
 241

<210> 92
 <211> 70
 <212> PRT

<213> Conus generalis

<400> 92

Gly	Ser	Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Val
1									10					15	
5															

Leu	Phe	Pro	Leu	Thr	Ala	Leu	Pro	Leu	Asp	Gly	Glu	Gln	Pro	Val	Asp
								25					30		
20															

Arg	His	Ala	Glu	His	Met	Gln	Asp	Asp	Asn	Ser	Ala	Ala	Gln	Asn	Pro
						35		40					45		

Trp	Val	Ile	Ala	Ile	Arg	Gln	Cys	Cys	Thr	Phe	Cys	Asn	Phe	Gly	Cys
						50		55			60				

Gln	Pro	Cys	Cys	Leu	Thr
65				70	

<210> 93

<211> 16

<212> PRT

<213> Conus generalis

<220>

<221> PEPTIDE

<222> (1)...(16)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Pro or Hy

<400> 93

Xaa	Cys	Cys	Thr	Phe	Cys	Asn	Phe	Gly	Cys	Gln	Xaa	Cys	Cys	Leu	Thr
1				5					10					15	

<210> 94

<211> 241

<212> DNA

<213> Conus generalis

<400> 94

ggatccatga	tgtctaaact	gggagtcttg	ttgaccatct	gtctggttct	gtttcccctt	60
------------	------------	------------	------------	------------	------------	----

actgctttc	cactggatgg	agaacaacct	gtagaccgac	atgccgagca	tatgcaggat	120
-----------	------------	------------	------------	------------	------------	-----

gacaatttcag	ctgcacagaa	cccctgggtt	attgccatca	gacagtgttg	cacgttctgc	180
-------------	------------	------------	------------	------------	------------	-----

aactttggat	gccagccttg	ttgcgtcccc	tgataaacgtg	ttgatgacca	actttctcga	240
------------	------------	------------	-------------	------------	------------	-----

g						241
---	--	--	--	--	--	-----

<210> 95

<211> 70

<212> PRT

<213> Conus generalis

<400> 95

Gly	Ser	Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Val
1									10					15	
5															

Leu	Phe	Pro	Leu	Thr	Ala	Leu	Pro	Leu	Asp	Gly	Glu	Gln	Pro	Val	Asp
								25					30		
20															

Arg	His	Ala	Glu	His	Met	Gln	Asp	Asp	Asn	Ser	Ala	Ala	Gln	Asn	Pro
						35		40					45		

Trp	Val	Ile	Ala	Ile	Arg	Gln	Cys	Cys	Thr	Phe	Cys	Asn	Phe	Gly	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Gln Pro Cys Cys Val Pro
65 70

<210> 96

<211> 16

<212> PRT

<213> Conus generalis

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 and 16 is Pro or Hy

<400> 96

Xaa Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Xaa Cys Cys Val Xaa
1 5 10 15

<210> 97

<211> 862

<212> DNA

<213> Conus geographus

<400> 97

gtcgactcta gaggatccga caacaaagag tcaaccccac tgccacgtca agagcgaagc 60

gccacagcta agacaagagg gatcgatagc agttcatgtat gtctaaactg ggagtcttgt 120

tgaccatctg tctgcttctg tttccccta ctgctttcc gatggatgga gatgaacctg 180

caaaccgacc tgtcgagcgt atgcaggaca acatttcatac tgagcagttat cccttgtttg 240

agaagagacg agattgttgc actccgcccga agaaatgcaa agaccgacaa tgcaaacc 300

agagatgttgc cgctggacga taacgtgttg atgaccaact ttatcacggc tacgtcaagt 360

gttttagttaa taagtaaaat gattgcagtc ttgctcagat ttgctttgt gttttggct 420

aaagatcaat gaccaaaccg ttgtttgtat gcggattgtc atatatttct cgattccaat 480

ccaaacactag atgatttaat cacgatagat taattttcta tcaatgcctt gattttcgt 540

ctgtcatatc agttttgttt atatttattt ttctgtcact gtctacacaa acgcatgcat 600

gcacgcacatgc acgcacacac gcacgcacgc tcgcacaaac atgcgcgcgc acgcacacac 660

acacacacac acacaaacac acacacaacg aatcacacaa ttattgacat tatttattta 720

ttcattgtat tatttggat tcgtttgctt gtttttagaa tagtttgagg ccgtttttt 780

ggattttatggaaactgcttt attgtatacg agtacttcgt gctttgaaac actgctgaaa 840

ataaaaacaaa cactgacgta gc 862

<210> 98

<211> 75

<212> PRT

<213> Conus geographus

<400> 98

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

100 90 80 70 60 50 40 30 20 10 100 90 80 70 60 50 40 30 20 10

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60

Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 99

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 99

Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Xaa Gln Arg Cys Cys Ala
 20

<210> 100

<211> 860

<212> DNA

<213> Conus geographus

<400> 100

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agacaagagg gatcgatagc agttcatgat gtctaaactg ggagtcttgc tgaccatctg 120

tctgcttcgt tttccctta ctgctttcc gatggatgga gatgaacctg caaaccgacc 180

tgtcgagcgt atgcaggaca acatttcatc tgagcagtat cccttgtttgc agaagagacg 240

agattgttgc actccgccga gaaaaatgcaa agaccgacga tgcaaaccctg tgaaatgttgc 300

cgcggacga taacgttttgc atgaccaact ttatcacggc tagctcagtg ttttgtaatgc 360

aagtaaaatg attgcagtct tgctcagatt gctttgtgt ttttgtctaa gatcaatgac 420

caaaccgttg ttttgatgctg gattgtcata tatttctcga ttccaatcca acactagatg 480

attnaatcac gatagattaa ttttctatca atgccttgc ttttgtctg tcataatcgt 540

tttgtttata ttatttttt cgtcactgtc tacacaaacg catgcgtcga cgcatgcacg 600

cacacacgca cgcacgctcg cacaacatg cgcgcacg cacacacaca cacacacaca 660

aacacacaca cgaagcaatc acacaattag ttgacattat ttatatttc attgatgtat 720

ttgttattcg tttgcttgc tttagaatag tttgaggccg tctttttggaa tttatgtaa 780

ctgctttatt gtatacgagt acttcgtgc ttgaaacact gctgaaaata aaacaaacac 840

tgacgttagca aaaaaaaaaaaaa 860

<210> 101

<211> 75

<212> PRT

<213> Conus geographus

<400> 101

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Leu	Phe
1				5				10						15	

Pro	Leu	Thr	Ala	Leu	Pro	Met	Asp	Gly	Asp	Glu	Pro	Ala	Asn	Arg	Pro
					20			25				30			

Val	Glu	Arg	Met	Gln	Asp	Asn	Ile	Ser	Ser	Glu	Gln	Tyr	Pro	Leu	Phe
						35	40				45				

Glu	Lys	Arg	Arg	Asp	Cys	Cys	Thr	Pro	Pro	Arg	Lys	Cys	Lys	Asp	Arg
					50	55				60					

Arg	Cys	Lys	Pro	Met	Lys	Cys	Cys	Ala	Gly	Arg
					65	70		75		

<210> 102

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 102

Arg	Asp	Cys	Cys	Thr	Xaa	Xaa	Arg	Lys	Cys	Lys	Asp	Arg	Arg	Cys	Lys
1					5			10				15			

Xaa	Met	Lys	Cys	Cys	Ala
			20		

<210> 103

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 103

Arg	Asp	Cys	Cys	Thr	Xaa	Xaa	Lys	Lys	Cys	Lys	Asp	Arg	Arg	Cys	Lys
1					5			10				15			

Xaa	Leu	Lys	Cys	Cys	Ala
			20		

<210> 104

<211> 321

<212> DNA

<213> Conus gloriamaris

<400> 104

ctcactatacg	gaatttcgagc	tcggcacacg	ggatcgatag	cagttcatga	tgtctaaact	60
gggagcccttg	ttgaccatct	gtctacttct	gtttcccta	actgctgttc	cgctggatgg	120

agatcaacat gcagaccaac ctgcagagcg tctgcatgac cgccttccaa ctgaaaatca 180
 tcccttatat gatcccgta aacgggtttg cgatgattcg gaatgcgact attcttgctg 240
 gccttgctgt atgtttggat aaccttggtt atcgccgcgt cgataagtgt ctaatgaata 300
 agtaaaacga ttgcagtagg c 321

<210> 105
 <211> 71
 <212> PRT
 <213> Conus gloriamaris

<400> 105
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Met Phe Gly
 65 70

<210> 106
 <211> 17
 <212> PRT
 <213> Conus gloriamaris

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue is 6 Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 106
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Met
 1 5 10 15

Phe

<210> 107
 <211> 257
 <212> DNA
 <213> Conus gloriamaris

<400> 107
 gttcatgatg tctaaactgg gagtcttggt gatcatctgt ctacttctgt ttccccttac 60
 tgctgttccg ctggatggag atcaacctgc agaccgatat gcagagcgtt tgcaggacga 120
 catttcatct gaacatcatc ccatgttga tgccgtcaga gggtgttgcc atctgttggc 180
 atgccgcttc ggatgctcgc cttgttggat gtgatcagct ttgttatcgc ggcctcatca 240
 agtgactcta atgc当地
 <210> 108
 <211> 69

<212> PRT
<213> Conus gloriamaris

<400> 108
Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Tyr
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His His Pro Met Phe
35 40 45

Asp Ala Val Arg Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys
50 55 60

Ser Pro Cys Cys Trp
65

<210> 109
<211> 17
<212> PRT
<213> Conus gloriamaris

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 14 is Pro or Hyp; Xaa at residue 17 is Trp or brom o-Tr

<400> 109
Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Xaa Cys Cys
1 5 10 15

Xaa

<210> 110
<211> 471
<212> DNA
<213> Conus gloriamaris

<400> 110
gagacgacaa ggaacagtca accccacagc cacgccaaga gcagacagcc acagctacgt 60
gaagaagggt ggagagaggt tcgtgatgtt gaaaatggga gtggtgctat tcatcttcct 120
ggtaactgttt cccctggcaa cgctccagct ggatgcagat caacctgttag aacgatatgc 180
ggagaacaaa cagctcctca acccagatga aaggaggaa atcatattgc atgctctggg 240
gacgcgatgc ttttcttggg atgtgtgcga ccacccgagt tgtacttgct gcggcggtta 300
gcgccgaaca tccatggcgc tggctgggc gtttatcc aacaacgaca gcgtttgtt 360
atttcatgta tcattgcgcc cacgtctt gtctaagaat gacgaacatg attgcactct 420
ggttcagatt tcgtgttctt ttctgacaat aaatgacaaa actccaaaaaa a 471

<210> 111
<211> 71
<212> PRT
<213> Conus gloriamaris

<400> 111
Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe Pro

1	5	10	15
Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr Ala			
20	25	30	
Glu Asn Lys Gln Leu Leu Asn Pro Asp Glu Arg Arg Glu Ile Ile Leu			
35	40	45	
His Ala Leu Gly Thr Arg Cys Cys Ser Trp Asp Val Cys Asp His Pro			
50	55	60	
Ser Cys Thr Cys Cys Gly Gly			
65	70		
<210> 112			
<211> 16			
<212> PRT			
<213> Conus gloriamaris			
<220>			
<221> PEPTIDE			
<222> (1)..(16)			
<223> Xaa at residue 10 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Tr			
<400> 112			
Cys Cys Ser Xaa Asp Val Cys Asp His Xaa Ser Cys Thr Cys Cys Gly			
1	5	10	15
<210> 113			
<211> 304			
<212> DNA			
<213> Conus laterculatus			
<400> 113			
cgacctcaag aaggatcgat agcagttcat gatgtctaaa ctgggagtct tggaccat 60			
ctgtctgctt ctgtttcccc ttactgctct tccgatggat ggagatcaac ctgcagaccg 120			
acctgcagag cgtatgcagg acgtttcatc tgaacagcat cccttgtatg atcccgtaa 180			
acggtgttgc gactggccat gcagcggatg catcccttgt tgctaatagt aacaacgtgt 240			
tgataaccaa ctttcttacc acgactacgt caagtgtcta atgaataagt aaaatgattg 300			
cagt 304			
<210> 114			
<211> 65			
<212> PRT			
<213> Conus laterculatus			
<400> 114			
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe			
1	5	10	15
Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Pro			
20	25	30	
Ala Glu Arg Met Gln Asp Val Ser Ser Glu Gln His Pro Leu Tyr Asp			
35	40	45	
Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ser Gly Cys Ile Pro Cys			
50	55	60	
Cys			

65

<210> 115

<211> 13

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(13)

<223> Xaa at residue 5 and 11 is Pro or Hyp; Xaa at residue 4 is Trp or
bromo-Trp

<400> 115

Cys Cys Asp Xaa Xaa Cys Ser Gly Cys Ile Xaa Cys Cys
1 5 10

<210> 116

<211> 313

<212> DNA

<213> Conus laterculatus

<400> 116

cgacacctcaag aaggatcgat agcagttcat gatgtctaaa ctgggagtct tggtgaccat 60
ctgtctgctt ctgtttcccc ttactgctct ggatggagat caacctgcag accgacttgc 120
agagcgtatg caggacgaca tttcatctga gcagcatccc tttgaaaaga gacgagactg 180
ttgcacacct ccgaagaaat gcagagaccg acaatgc当地 cctgcacgtt gttgcggagg 240
ataaacgtgtt gatgaccaac tttgttatca cggctacgtc aagtgtctag tgaataagta 300
aaacgattgc agt 313

<210> 117

<211> 71

<212> PRT

<213> Conus laterculatus

<400> 117

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15Pro Leu Thr Ala Leu Asp Gly Asp Gln Pro Ala Asp Arg Leu Ala Glu
20 25 30Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Phe Glu Lys Arg
35 40 45Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Arg Asp Arg Gln Cys Lys
50 55 60Pro Ala Arg Cys Cys Gly Gly
65 70

<210> 118

<211> 22

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 17 and 17 is Pro or Hyp

<400> 118
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Arg Asp Arg Gln Cys Lys
 1 5 10 15

Xaa Ala Arg Cys Cys Gly
 20

<210> 119
 <211> 314
 <212> DNA
 <213> Conus laterculatus

<400> 119
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 tggggccct tactgctctt ccgatggatg gagatcaact tgcacgccga tctgcagagc
 gtatgcagga caacatttca tctgagcagc atcacctttt tgaaaagaga cgaccaccat 120
 gttgcaccta tgacggagt tgcctaaaag aatcatgcat gcttaaagct tggggat 180
 gataacgtgt tcatgaccaa ctttgttatac acggctactc aagtgtctaa tgaataagta 240
 aaatgattgc agta 300
 314

<210> 120
 <211> 74
 <212> PRT
 <213> Conus laterculatus

<400> 120
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Arg Arg Ser
 20 25 30
 Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His His Leu Phe
 35 40 45
 Glu Lys Arg Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys
 50 55 60
 Glu Ser Cys Met Arg Lys Ala Cys Cys Gly

65
 70
 <210> 121
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 3 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-p-sulpho-Ty

<400> 121
 Arg Xaa Xaa Cys Cys Thr Xaa Asp Gly Ser Cys Leu Lys Xaa Ser Cys
 1 5 10 15
 Met Arg Lys Ala Cys Cys
 20

<210> 122

<211> 314

<212> DNA

<213> Conus laterculatus

<400> 122

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gggatcgata gcagttcatg atgtctaaac tgggagtctt gttgaccacc tgtctgcttc      60
tgtttccct tactgctctt ccgatggatg gagatcaact tgcacgcccga cctgcagagc      120
gtatgcagga caacattca tctgaggcgc atcccttctt taaaaggaga cgaccaccat      180
gttgcaccta tgacggagt tgcctaaaag aatcatgcaa gcgtaaagct tggcggat      240
aataacgtgt tggatgaccaa ctttgttatac acggctactc aagtgtctaa tgaataagta      300
aaatgattgc agta

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314

<210> 123

<211> 74

<212> PRT

<213> Conus laterculatus

<400> 123

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Thr	Cys	Leu	Leu	Leu	Phe
1				5					10						15

Pro	Leu	Thr	Ala	Leu	Pro	Met	Asp	Gly	Asp	Gln	Leu	Ala	Arg	Arg	Pro
				20				25							30

Ala	Glu	Arg	Met	Gln	Asp	Asn	Ile	Ser	Ser	Glu	Gln	His	Pro	Phe	Phe
	35						40							45	

Glu	Arg	Arg	Arg	Pro	Pro	Cys	Cys	Thr	Tyr	Asp	Gly	Ser	Cys	Leu	Lys
	50					55				60					

Glu	Ser	Cys	Lys	Arg	Lys	Ala	Cys	Cys	Gly
				65					70

<210> 124

<211> 22

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 3 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 124

Arg	Xaa	Xaa	Cys	Cys	Thr	Xaa	Asp	Gly	Ser	Cys	Leu	Lys	Xaa	Ser	Cys
1				5					10						15

Lys	Arg	Lys	Ala	Cys	Cys
		20			

<210> 125

<211> 247

<212> DNA

<213> Conus leopardus

<400> 125

ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtttcccctt 60
 actgctcttc ggctggttgg agatcaacct gcagagcgac ctgcaaagcg tacgcaggac 120
 gacattccag atggacagca tccgttaaat gataggcaga taaactgttg cccgtggcca 180
 tgccctagta catgccgcca tcaatgctgc cattaatgat aacgtgttga tgaccaactt 240
 tctcgag 247

<210> 126
 <211> 71
 <212> PRT
 <213> Conus leopardus

<400> 126
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Arg Leu Val Gly Asp Gln Pro Ala Glu
 20 25 30

Arg Pro Ala Lys Arg Thr Gln Asp Asp Ile Pro Asp Gly Gln His Pro
 35 40 45

Leu Asn Asp Arg Gln Ile Asn Cys Cys Pro Trp Pro Cys Pro Ser Thr
 50 55 60

Cys Arg His Gln Cys Cys His
 65 70

<210> 127
 <211> 19
 <212> PRT
 <213> Conus leopardus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 10 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Tr

<400> 127
 Xaa Ile Asn Cys Cys Xaa Xaa Xaa Cys Xaa Ser Thr Cys Arg His Gln
 1 5 10 15

Cys Cys His

<210> 128
 <211> 244
 <212> DNA
 <213> Conus lividus

<400> 128
 ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtttcccctt 60
 actgctcttc ggctggtag agatcaacct gcagagcgac ctgcaaagcg tacgcaggac 120
 gacattccaa atggacagga tccgttaatt gataggcaga taaattgttg cccttggcca 180
 tgccctgatt catgccacta tcaatgctgc cactgataac gtgttcatga ccaacttct 240
 cgag 244

<210> 129

<211> 71
<212> PRT
<213> Conus lividus

<400> 129
Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Arg Leu Val Arg Asp Gln Pro Ala Glu
20 25 30

Arg Pro Ala Lys Arg Thr Gln Asp Asp Ile Pro Asn Gly Gln Asp Pro
35 40 45

Leu Ile Asp Arg Gln Ile Asn Cys Cys Pro Trp Pro Cys Pro Asp Ser
50 55 60

Cys His Tyr Gln Cys Cys His
65 70

<210> 130
<211> 19
<212> PRT
<213> Conus lividus

<220>
<221> PEPTIDE
<222> (1)..(19)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 10 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp; Xaa at residue 15 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 130
Xaa Ile Asn Cys Cys Xaa Xaa Cys Xaa Asp Ser Cys His Xaa Gln
1 5 10 15

Cys Cys His

<210> 131
<211> 275
<212> DNA
<213> Conus lynceus

<400> 131
aaggatcgat agcagttcat gatgtctaaa ctgggagtct tggtgaccat ctgtctgctt 60
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cgtatgcagg acaacatttc atctgagcag catcccttct ttgaaaagag aggacgagac 120
tgttgcacac ctccgagggaa atgcagagac cgagcctgca aacctcaacg ttgttgcgga 180
ggataagctg ttgatgacca actttgttat acggc 240
275

<210> 132
<211> 75
<212> PRT
<213> Conus lynceus

<400> 132
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Ala Asp Arg Leu

<213> Conus magus

<400> 135
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60
 Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 136
 <211> 22
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6 and 7 is Pro or Hyp
 <400> 136
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Gln Arg Cys Cys Ala
 20

<210> 137
 <211> 656
 <212> DNA
 <213> Conus magus

<400> 137
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 agatcgatg caggacgaca tttcatctga gcagtatccc ttgtttgata tgagaaaaag 180
 gtgttgcggc cccggcggtt catgccccgt atatttcaga gacaatttttta ttgttggttg 240
 ttgttaaatg acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
 tgaataaata aaatgattgc agtctcgctc agatggctt ttgtattttg gtctaaagat 360
 caatgaccaa accgttgttt tggtgtggat tttcatatat ttctcgagtc ctatccaaca 420
 ctagatgatt taatcacgat agatctgatt ttttatcaa aggcttgggtt ttgcgtctgt 480
 cacatcagtt ttgttatatat ttaatttttc gtcactgatt acacacacgc atgaacgcac 540
 agagtactaa cacatacaca cacacacaca cacacacaca cacacacaca 600
 cacacacaca cacgcgcgcg cgccggcgcca tctagtagcg ccgcgacgac acacac 656

<210> 138
 <211> 74
 <212> PRT

<213> Conus magus

<400> 138

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45

Asp Met Arg Lys Arg Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
50 55 60

Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
65 70

<210> 139

<211> 21

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(21)

<223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue is 11 Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 139

Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp Asn Phe
1 5 10 15

Ile Cys Gly Cys Cys
20

<210> 140

<211> 594

<212> DNA

<213> Conus magus

<400> 140

caagagggat cgatagcagt tcatgatgtc taaaactggga gtcttggta ccatctgttt 60

gcttcgttt ccccttactg ctcttccgag ggttggagat caatctgttag accgacctgc 120

agagcgtatg caggacgaca tttcatctga gctgcattccc ttgtcaatca gaaaaagaat 180

gtgttgcggc gagagtgcgc catgccccag ctatttcaga aacagtcaga tttgtcattg 240

ttgttaaatg acaacgtgtc gatgaccacc ttgcgttatca cgactaatga taagtaaaat 300

gattgcagtc tcgctcagat ttgttttgtt attttggctt aaagatcaat gaccaaaccg 360

ttgttttgtt gtggattttc atatatttct cgagtccat ccaacactag atgatttaat 420

cacgatagat ctgattttt tatcaaagcc ttgggttttc gtctgtcaca tcagtttgtt 480

tttatattaa ttttcgtca ctgattacac acacgcacatga acgcacacacac gtactaacac 540

atacacacac acacacacac acacacacac acacacacac acacacacac acac 594

<210> 141

<211> 74

<212> PRT
<213> Conus magus

<400> 141
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Leu Pro Arg Asp Gly Asp Gln Ser Val Asp Arg Pro
20 25 30
Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Leu His Pro Leu Ser
35 40 45
Ile Arg Lys Arg Met Cys Cys Gly Glu Ser Ala Pro Cys Pro Ser Tyr
50 55 60
Phe Arg Asn Ser Gln Ile Cys His Cys Cys
65 70

<210> 142
<211> 22
<212> PRT
<213> Conus magus

<220>
<221> PEPTIDE
<222> (1)..(22)
<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 142
Met Cys Cys Gly Xaa Ser Ala Xaa Cys Xaa Ser Xaa Phe Arg Asn Ser
1 5 10 15
Gln Ile Cys His Cys Cys
20

<210> 143
<211> 501
<212> DNA
<213> Conus magus

<400> 143
caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccatctgtct 60
gcttcgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata agagacaaaa 180
gtgttgcggc cccggcggtt catgccccgt atatttcaca gacaatttta tttgtggttg 240
ttgttaatg acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
tgaataaaata aaatgattgc agtctcgctc agatttgctt ttgttatttgg tctaaagatc 360
aatgaccaaa ccgttgtttt ggtgctggat tttcatatat ttctcgattc ctatccaaca 420
ctagatgatt taatcacgat agatctgatt ttttatcaa tgccttaatt ttttgctctg 480
tcatatcagt tttgtttata t 501

<210> 144
<211> 74
<212> PRT

<213> Conus magus

<400> 144

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Phe
1				5				10					15	

Pro	Leu	Thr	Ala	Leu	Pro	Met	Asp	Gly	Asp	Gln	Pro	Ala	Asp	Gln	Pro
				20				25				30			

Ala	Asp	Arg	Met	Gln	Asp	Asp	Ile	Ser	Ser	Glu	Gln	Tyr	Pro	Leu	Phe
				35			40			45					

Asp	Lys	Arg	Gln	Lys	Cys	Cys	Gly	Pro	Gly	Gly	Ser	Cys	Pro	Val	Tyr
				50			55			60					

Phe	Thr	Asp	Asn	Phe	Ile	Cys	Gly	Cys	Cys						
65					70										

<210> 145

<211> 23

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is Pyro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 145

Xaa	Lys	Cys	Cys	Gly	Xaa	Gly	Gly	Ser	Cys	Xaa	Val	Xaa	Phe	Thr	Asp
1					5				10			15			

Asn	Phe	Ile	Cys	Gly	Cys	Cys									
				20											

<210> 146

<211> 454

<212> DNA

<213> Conus magus

<400> 146

caagaggat	cgatagcagt	tcatgatgtc	taaactggga	gtcttgttga	ccatctgtct	60
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gcttctgttt	ccccttactg	ctcttccaat	ggatggagat	caacctgcag	accaacctgc	120
------------	------------	------------	------------	------------	------------	-----

agatcgatg	caggacgaca	tttcatctga	gcagtatccc	ttgtttgata	agagacaaaa	180
-----------	------------	------------	------------	------------	------------	-----

gtgttgcggc	ccggcgggtt	catgccccgt	atatttcaga	gacaatttta	tttgggttg	240
------------	------------	------------	------------	------------	-----------	-----

ttgttaatg	acaacgtgtc	gatgaccatc	ttcatttatca	cgactacgcc	aagtgtctaa	300
-----------	------------	------------	-------------	------------	------------	-----

tgaataaata	aatgattgc	agtctcgctc	agatttgctt	ttgtatTTTg	gtctaaagat	360
------------	-----------	------------	------------	------------	------------	-----

caatgaccaa	accgttgttt	tggtgtggat	tttcatatat	ttctcgattc	ctatccaaca	420
------------	------------	------------	------------	------------	------------	-----

ctagatgatt	taatcacgat	agatctgatt	tttt			454
------------	------------	------------	------	--	--	-----

<210> 147

<211> 74

<212> PRT

<213> Conus magus

<400> 147

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60

Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 148

<211> 23

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is Pyro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 148

Xaa Lys Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 149

<211> 22

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 10 and 20 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 149

Xaa Lys Cys Cys Ser Gly Gly Ser Cys Xaa Leu Xaa Phe Arg Asp Arg
 1 5 10 15

Leu Ile Cys Xaa Cys Cys
 20

<210> 150

<211> 19

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(19)

<223> Xaa at residue 16 is Pro or Hyp

<400> 150

Ser Lys Gln Cys Cys His Leu Ala Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Asn

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<210> 151
<211> 321
<212> DNA
<213> Conus marmoreus
<400> 151
caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggta ccatctgtct      60
gcttcgttt cccgttactg ctcttccgtat ggttgtat caacctgcag accgacttgt      120
agagcgtatg caggacaaca tttcatctga gcagcatccc ttctttgaaa agagaagagg      180
aggctgttgc acacccctcgaa gaaatgcaa agaccgagcc tgcaaaccctg cacgttgctg      240
cgccccagga taacgtgttgc atgaccaact ttgttatcac ggctacgtca agtgtctagt      300
gaataagtaa aacgattgca g                                         321

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<210> 152
<211> 76
<212> PRT
<213> Conus marmoreus
<400> 152
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1                         5                           10                         15
Pro Val Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20                        25                           30
Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35                         40                           45
Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp
50                         55                           60
Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
65                         70                           75

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<210> 153
<211> 24
<212> PRT
<213> Conus marmoreus

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<220>
<221> PEPTIDE
<222> (1)..(24)
<223> Xaa at residue 3, 8, 18 and 24 is Pro or Hyp

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<400> 153
Arg Gly Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys
1                         5                           10                         15
Lys Xaa Ala Arg Cys Cys Gly Xaa
20

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<210> 154
<211> 296
<212> DNA
<213> Conus marmoreus

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<400> 154
gagctcggtt ccccgacctc aagagggtt catgatgtct aaactggaa      60

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tcttggatcc catctgtcta cttctatttc cccttactgc tggccgctg gatggagatc 120
aacctgcaga ccgacctgca gagcgtatgc aggacgacat ttcatctgaa catcatccct 180
tttttgcgtcc cgtcaaacgg tggcaggt tatcatgcgg cctggatgc cacccttgaa 240
gtggatgacc agctttgtta tcgcggcctc atcaagtgtc taatgaataa gtaaaa 296

<210> 155
<211> 68
<212> PRT
<213> Conus marmoreus

<400> 155
Met Met Ser Lys Leu Gly Ile Leu Leu Thr Ile Cys Leu Leu Leu Phe 1
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His His Pro Phe Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His
50 55 60

Pro Cys Cys Gly
65

<210> 156
<211> 14
<212> PRT
<213> Conus marmoreus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 12 is Pro or Hyp

<400> 156
Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His Xaa Cys Cys
1 5 10

<210> 157
<211> 355
<212> DNA
<213> Conus marmoreus

<400> 157
ggcctacacc aagcttgcatt gcctgcaggt cgactctaga ggatccccga tcgatagcag 60
ttcatgtatgt cttagactggg agtcttggat accatctgttc tacttctgtt tcccccttact 120
gctgttccgc tggtatggaga tcaacctgca gaccgacctg cagagcgct gcaggacgac 180
atttcatctg aacatcatcc ccattttgtt tccgg--gag agtgtgcgg ttcgttgcga 240
tgccgcgttgc gatgcgtgcc ttgttgttgc tgaccagctt tgttatcactg gcctcatcga 300
gtgtctaatg aataagtaaa acgattgcag taggcgggtt ccgagctcga attcc 355

<210> 158
<211> 69
<212> PRT

<213> Conus marmoreus

<400> 158
Met Met Ser Arg Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Leu Gln Asp Asp Ile Ser Ser Glu His His Pro His Phe
35 40 45

Asp Ser Gly Arg Glu Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys
50 55 60

Val Pro Cys Cys Val
65

<210> 159

<211> 17

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Xaa at residue 1 is Glu or gamma-carboxy Glu; Xaa at residue 14 is Pro or Hy

<400> 159

Xaa Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
1 5 10 15

Val

<210> 160

<211> 295

<212> DNA

<213> Conus marmoreus

<400> 160

cgacctcaag agggatcgat agcagttcat gatgtctaaa ctgggagtct tggaccat 60

ctgtctactt ctatttcccc ttactgctgt tccgctggat ggagaccaac ctgcagaccg 120

acctgcagag cgtatgcagg acgacatttc atctgaacgt catcctttt ttgatgcag 180

caaacagtgt tgccatctgc cggcatgccg cttcgatgt acgccttgtt gttggtgatc 240

agctttgtta tcgcgtcctc atcaagtgtc taatgaataa gtaaatgat tgcag 295

<210> 161

<211> 67

<212> PRT

<213> Conus marmoreus

<400> 161

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser His Pro Phe Phe Asp Arg
35 40 45

Ser Lys Gln Cys Cys His Leu Pro Ala Cys Arg Phe Gly Cys Thr Pro
 50 55 60

Cys Cys Trp
 65

<210> 162

<211> 19

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(19)

<223> Xaa at residue 8 and 16 is Pro or Hyp; Xaa at residue 19 is Trp o
 r bromo-Tr

<400> 162

Ser Lys Gln Cys Cys His Leu Xaa Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Xaa

<210> 163

<211> 235

<212> DNA

<213> Conus marmoreus

<400> 163

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60

actgctcttc cgctggatgg agatcaacct gcagaccaac gtgcagagcg tacgcaggcc 120

gagaagcatt cttgcctga tccgagaatg ggctgttgcc cgtttccatg caaaaccagt 180

tgcactactt tgtgttgcgg gtgatgataa cgtgttgatg accaactttc tcgag 235

<210> 164

<211> 67

<212> PRT

<213> Conus marmoreus

<400> 164

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Gln Arg Ala Glu Arg Thr Gln Ala Glu Lys His Ser Leu Pro Asp Pro
 35 40 45

Arg Met Gly Cys Cys Pro Phe Pro Cys Lys Thr Ser Cys Thr Thr Leu
 50 55 60

Cys Cys Gly
 65

<210> 165

<211> 17

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 5 and 7 is Pro or Hyp

<400> 165
 Met Gly Cys Cys Xaa Phe Xaa Cys Lys Thr Ser Cys Thr Thr Leu Cys
 1 5 10 15

Cys

<210> 166
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 6 is Trp or bromo-Trp

<400> 166
 Cys Cys His Xaa Asn Xaa Cys Asp His Leu Cys Ser Cys Cys Gly Ser
 1 5 10 15

<210> 167
 <211> 357
 <212> DNA
 <213> Conus marmoreus

<400> 167
 gccaagcttg catgcctgca ggatgactct agaggatccc cacctaaga gggatcgata 60
 gcagttcatg atgtctaaac tgggagtctt gttgaccatc tgtctacttc tgtttgcct 120
 tactgctgtt ccgctggatg gagatcaacc tgcagaccga cctgcagaac gtatgcagga 180
 cgacatttca tctgaacgta atcccatgtt tcatgccgtc agagattgtt gcccgttgcc 240
 ggcatgcccc ttggatgca acccttgttg tggatgacca gctttgttat cgggacctca 300
 tcaagtgtct aatgaataag taaaaaacga ttcgagtgaa taccgagctc gaattcc 357

<210> 168
 <211> 67
 <212> PRT
 <213> Conus marmoreus

<400> 168
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ala Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser His Pro Met Phe Asp Ala
 35 40 45

Val Arg Asp Cys Cys Pro Leu Pro Ala Cys Pro Phe Gly Cys Asn Pro
 50 55 60

Cys Cys Gly
 65

<210> 169
 <211> 16

<212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 6, 9 and 14 is Pro or Hyp

<400> 169
 Asp Cys Cys Xaa Leu Xaa Ala Cys Xaa Phe Gly Cys Asn Xaa Cys Cys
 1 5 10 15

<210> 170
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 170
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 171
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 171
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 172
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 172
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 173
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp

<400> 173

Gly Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15

Val

<210> 174

<211> 244

<212> DNA

<213> Conus nobilis

<400> 174

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60

actgctcttc cgctggatga agatcaaccg gtacaccgac ctgcagagcg tatgcaggac 120

atttcatctg atcaacatct cttctttgtat ctcataaac ggtgctgcga gttgccatgc 180

gggccaggct tttgcgtccc ttgttgctga catcaataac gtgttgatga ccaactttct 240

cgag 244

<210> 175

<211> 69

<212> PRT

<213> Conus nobilis

<400> 175

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Val His
 20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Ile Ser Ser Asp Gln His Leu Phe
 35 40 45

Phe Asp Leu Ile Lys Arg Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe
 50 55 60

Cys Val Pro Cys Cys
 65

<210> 176

<211> 15

<212> PRT

<213> Conus nobilis

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 8
 adn 13 is Pro or Hy

<400> 176

Cys Cys Xaa Leu Xaa Cys Gly Xaa Gly Phe Cys Val Xaa Cys Cys
 1 5 10 15

<210> 177

<211> 262

<212> DNA

<213> Conus nobilis

<400> 177

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60

actgcttttc cgatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
 gacatttcat ctgagcagta tcccttgttt gataagagac aaaagtgttg cactggaaag 180
 aagggttcat gctccggcaa agcatgcaaa aatctcaa at gttgctctgg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 178
 <211> 78
 <212> PRT
 <213> Conus nobilis

<400> 178
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Gln Pro Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro
 35 40 45

Leu Phe Asp Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys
 50 55 60

Ser Gly Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 179
 <211> 23
 <212> PRT
 <213> Conus nobilis

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 179
 Xaa Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 180
 <211> 238
 <212> DNA
 <213> Conus pulicarius

<400> 180
 ggatccatga tgtctaaact gggagtttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagacccgac ctgcagagcc tatgcaggac 120
 attgcaactg aacagcatcc cttctttgat cccgtcaa ac ggtgttgca cagctgttac 180
 atgggatgca tcccttgttg cttcttagtaa taacgtgttg atgaccaact ttctcgag 238

<210> 181
 <211> 68
 <212> PRT
 <213> Conus pulicarius

<400> 181
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Phe
 35 40 45

Phe Asp Pro Val Lys Arg Cys Cys Asn Ser Cys Tyr Met Gly Cys Ile
 50 55 60

Pro Cys Cys Phe
 65

<210> 182

<211> 14

<212> PRT

<213> Conus pulicarius

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 5 is Tyr, 125I-Ty
 r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 182

Cys Cys Asn Ser Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10

<210> 183

<211> 238

<212> DNA

<213> Conus quercinus

<400> 183

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acagctcttc agctggatgg agatcaacct gcagaccgac ctgcagagcg tacgcaggac 120

attgcatactg aacagtatcg aaagtttcat cagagacaga ggtgttgcca gtggccatgc 180

cccgtagtt gcagatgctg ccgtactggta acgtgttg atgaccaact ttctcgag 238

<210> 184

<211> 70

<212> PRT

<213> Conus quercinus

<400> 184

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Gln Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Arg Pro Ala Glu Arg Thr Gln Asp Ile Ala Ser Glu Gln Tyr Arg Lys
 35 40 45

Phe Asp Gln Arg Gln Arg Cys Cys Gln Trp Pro Cys Pro Gly Ser Cys
 50 55 60

Arg Cys Cys Arg Thr Gly
 65 70

<210> 185
 <211> 17
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 7 and 9 is Pr o or Hyp; Xaa at residue 6 is Trp or bromo-Tr

<400> 185
 Xaa Arg Cys Cys Gln Xaa Xaa Cys Xaa Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Thr

<210> 186
 <211> 15
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 11 and 14 is Pro or Hyp

<400> 186
 Cys Cys Ser Gln Asp Cys Leu Val Cys Ile Xaa Cys Cys Xaa Asn
 1 5 10 15

<210> 187
 <211> 15
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 11 14 is Pro or Hyp; Xaa at residue 7 is Trp or br omo-Tr

<400> 187
 Cys Cys Ser Arg His Cys Xaa Val Cys Ile Xaa Cys Cys Xaa Asn
 1 5 10 15

<210> 188
 <211> 323
 <212> DNA
 <213> Conus radiatus

<400> 188
 tcaagaagga tcgatagcag ttcatgtatgt ctaaactggg agtcttggtt accatctgtc 60
 tgcttcgttt tccccttact gctcttccga tggatggaga tcaacctgtt gaccgacttg
 cagagcgtat gcaggacaac atttcatctg agcag tac cttctttgaa aagagactac 120
 catcggtttt ctcccctaact ttgcggcttt gcccagtacc agcatgcaaa cgtaaccctt
 gttgcacagg ataacgtgtt gatgaccaac tttgttatca cggctacgtc aagtgtctag 180
 tgaataagta aaacgattgc agt 240
 300
 323

<210> 189

<211> 76

<212> PRT

<213> Conus radiatus

<400> 189

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Phe
1				5				10					15	

Pro	Leu	Thr	Ala	Leu	Pro	Met	Asp	Gly	Asp	Gln	Pro	Val	Asp	Arg	Leu
				20				25				30			

Ala	Glu	Arg	Met	Gln	Asp	Asn	Ile	Ser	Ser	Glu	Gln	His	Thr	Phe	Phe
			35				40			45					

Glu	Lys	Arg	Leu	Pro	Ser	Cys	Cys	Ser	Leu	Asn	Leu	Arg	Leu	Cys	Pro
	50				55				60						

Val	Pro	Ala	Cys	Lys	Arg	Asn	Pro	Cys	Cys	Thr	Gly
65				70				75			

<210> 190

<211> 24

<212> PRT

<213> Conus radiatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 2, 13, 15 and 21 is Pro or Hyp

<400> 190

Leu	Xaa	Ser	Cys	Cys	Ser	Leu	Asn	Leu	Arg	Leu	Cys	Xaa	Val	Xaa	Ala
1					5			10				15			

Cys	Lys	Arg	Asn	Xaa	Cys	Cys	Thr
			20				

<210> 191

<211> 336

<212> DNA

<213> Conus radiatus

<400> 191

aggtcgactc tagaggatcc ccaaggatcg atagcagtcc atgatgtcta aactgggagt 60

cttgttgcacc atctgtctgc ttctgtttcc ccttactgct ctgccatgg atggagatca 120

acctgcagac cgacttgcag agcgtatgca ggacgacatt tcatctgagc agcatccctt 180

ctttaaaaag agacaacaaa gatgttgac cgttaagagg atttgtccag taccagcatg 240

cagaagtaaa ccttgttgca aatcataaacg tattgatgac caactttgtt atcacggcta 300

cgtcaagtgt ctatgtaaata agtaaaatga ttgcag 336

<210> 192

<211> 75

<212> PRT

<213> Conus radiatus

<400> 192

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Phe
1				5				10				15		

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Lys Lys Arg Gln Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Pro Val
 50 55 60

Pro Ala Cys Arg Ser Lys Pro Cys Cys Lys Ser
 65 70 75

<210> 193
 <211> 24
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12, 14 and 20
 is Pro or Hy

<400> 193
 Xaa Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Xaa Val Xaa Ala Cys
 1 5 10 15

Arg Ser Lys Xaa Cys Cys Lys Ser
 20

<210> 194
 <211> 326
 <212> DNA
 <213> Conus radiatus

<400> 194
 acctcaagaa ggatcgatag cagttcatga tgtctaaact gggagtcttg ttgaccatct 60
 gtctgcttct gtttcccggt actgctttc cgatggatgg tcatcaacct gcagaccgac 120
 ttgttagagcg tatgcaggac aacatttcat ctgagcagca tcccttcttt gaaaagagaa 180
 gagggaggctg ttgcacacct ccgagggaaat gcaaagaccg agcctgcaaa cctgcacgtt 240
 gctgcggccc aggataacgt gttgatgacc aactttgtta tcacggctac gtcaagtgtc 300
 tagtgaataa gtaaaacgat tgcagt 326

<210> 195
 <211> 76
 <212> PRT
 <213> Conus radiatus

<400> 195
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Val Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp
 50 55 60

Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
 65 70 75`

<210> 196
<211> 24
<212> PRT
<213> Conus radiatus

<220>
<221> PEPTIDE
<222> (1)..(24)
<223> Xaa at residue 7, 8, 18 and 24 is Pro or Hyp

<400> 196
Arg Gly Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 197
<211> 238
<212> DNA
<213> Conus rattus

<400> 197
ggatccatga tgtctaaact gggagtcttg gtgaccatct gcctgcttct gttcccttctt 60
gctgcgttttc cactggatgg agatcaacct gcagaccacc ctgcaaagcg tacgcaagat 120
gacagttcag ctgcccgtat caatgcctgg cttgatgaat cccagacttg ctgcagtaac 180
tgcggtgaag attgtgatgg ttgttgccag taacgtgttg atgaccaact ttctcgag 238

<210> 198
<211> 70
<212> PRT
<213> Conus rattus

<400> 198
Gly Ser Met Met Ser Lys Leu Gly Val Leu Val Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Ala Ala Phe Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

His Pro Ala Lys Arg Thr Gln Asp Asp Ser Ser Ala Ala Leu Ile Asn
 35 40 45

Ala Trp Leu Asp Glu Ser Gln Thr Cys Cys Ser Asn Cys Gly Glu Asp
 50 55 60

Cys Asp Gly Cys Cys Gln
 65 70

<210> 199
<211> 16
<212> PRT
<213> Conus rattus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 9 is Glu or gamma-carboxy Gl

<400> 203
 gatcgatagc agttcgtgat gtctaaactg ggagtcttgt tgaccatctg tctgcttctg 60
 tttccccccta ctgctttcc gatggatgga gatcaacctg cagaccaacc tgcagatcgt
 atgcagaacg acatttcatac tgagcagttat cccttggtaa ataagagaca aaagtgttgc 120
 ggccccggcg cgtcatgccc cagatatttc aaagacaatt ttatttggg ttgttggtaa 180
 atgacaacgt gtcgatgacc aacttcgtta tcacgacttc gccaaagtgtc taatgaataa 240
 gtaaaacgat tgcagt 316
<210> 204
<211> 73
<212> PRT
<213> Conus stercusmuscarum

<400> 204
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro Ala
 20 25 30
 Asp Arg Met Gln Asn Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe Asp
 35 40 45
 Lys Arg Gln Lys Cys Cys Gly Pro Gly Ala Ser Cys Pro Arg Tyr Phe
 50 55 60
 Lys Asp Asn Phe Ile Cys Gly Cys Cys
 65 70
<210> 205
<211> 23
<212> PRT
<213> Conus stercusmuscarum

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
 ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 205
 Xaa Lys Cys Cys Gly Xaa Gly Ala Ser Cys Xaa Arg Xaa Phe Lys Asp
 1 5 10 15
 Asn Phe Ile Cys Gly Cys Cys
 20
<210> 206
<211> 331
<212> DNA
<213> Conus striatus

<400> 206
 cgacctttca agagggatcg atagcagttc gcgtatgtcta aactgggggt attgttgacc 60
 atctgtctgc ttctgtttcc ctttactgct cttccgatgg atgaagatca acctgcagac
 caacttgaag atcgtatgca ggacgacatt tcatctgagc agtatccctc gtttggtagg 120
 agacaaaaagt gttgcggcga aggctcgta tgccccaaat atttcaaaaa caattttatt 180
 240

tgtggttgtt gttaaatgac aacgtgtcga tgaccaactt cgttatcacg actacgccaa 300
 gtgtcttgtc taatgataat aaaatgattc c 331

<210> 207
 <211> 73
 <212> PRT
 <213> Conus striatus

<400> 207
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15

Leu Thr Ala Leu Pro Met Asp Glu Asp Gln Pro Ala Asp Gln Leu Glu
 20 25 30

Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Ser Phe Val
 35 40 45

Arg Arg Gln Lys Cys Cys Gly Glu Gly Ser Ser Cys Pro Lys Tyr Phe
 50 55 60

Lys Asn Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 208
 <211> 23
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 11 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 208
 Xaa Lys Cys Cys Gly Xaa Gly Ser Ser Cys Xaa Lys Xaa Phe Lys Asn
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 209
 <211> 256
 <212> DNA
 <213> Conus striatus

<400> 209
 ggatccatga tgtctaaact gggagtcgg ttgaccgtct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 gacatttcat ctgacgagca tcccttggtt gataagagac aaaactgttg caatggggga 180
 tgctccagca aatggtgca agatcacgca cggtgtgcg gtcgatgata acgtgttgat 240
 gaccaacttt ctcgag 256

<210> 210
 <211> 75
 <212> PRT

<213> Conus striatus

<400> 210

Gly	Ser	Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Val	Cys	Leu	Leu
1															
					5				10					15	

Leu	Phe	Pro	Leu	Thr	Ala	Leu	Pro	Leu	Asp	Gly	Asp	Gln	Pro	Ala	Asp
					20			25					30		

Arg	Pro	Ala	Glu	Arg	Met	Gln	Asp	Asp	Ile	Ser	Ser	Asp	Glu	His	Pro
					35		40					45			

Leu	Phe	Asp	Lys	Arg	Gln	Asn	Cys	Cys	Asn	Gly	Gly	Cys	Ser	Ser	Lys
					50		55					60			

Trp	Cys	Arg	Asp	His	Ala	Arg	Cys	Cys	Gly	Arg				
					65		70			75				

<210> 211

<211> 20

<212> PRT

<213> Conus striatus

<220>

<221> PEPTIDE

<222> (1)...(20)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Trp or bromo-Tr

<400> 211

Xaa	Asn	Cys	Cys	Asn	Gly	Gly	Cys	Ser	Ser	Lys	Xaa	Cys	Arg	Asp	His
1															
					5			10					15		

Ala	Arg	Cys	Cys
			20

<210> 212

<211> 235

<212> DNA

<213> Conus tessulatus

<400> 212

ggatccatga	tgtctaaact	gggagtcttg	ttgaccatgt	gtctgcttct	gtttccccctt	60
------------	------------	------------	------------	------------	-------------	----

actgctgttc	cgcgtggatgg	agatcaacct	gcagaccgac	ctgcagagcg	taggcaggac	120
------------	-------------	------------	------------	------------	------------	-----

attgcaactg	acgatcatcc	tttgtttgat	cccgtaaac	ggtgctgcca	caaatgctat	180
------------	------------	------------	-----------	------------	------------	-----

atgggatgca	tcccttgttg	catttagtaa	cgtgttgatg	accaactttc	tcgag	235
------------	------------	------------	------------	------------	-------	-----

<210> 213

<211> 68

<212> PRT

<213> Conus tessulatus

<400> 213

Gly	Ser	Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Met	Cys	Leu	Leu
1															
					5			10					15		

Leu	Phe	Pro	Leu	Thr	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	Pro	Ala	Asp
					20		25					30			

Arg	Pro	Ala	Glu	Arg	Arg	Gln	Asp	Ile	Ala	Thr	Asp	Asp	His	Pro	Leu
					35		40					45			

Phe Asp Pro Val Lys Arg Cys Cys His Lys Cys Tyr Met Gly Cys Ile
 50 55 60

Pro Cys Cys Ile
 65

<210> 214
<211> 14
<212> PRT
<213> Conus tessulatus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Ty
r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 214
Cys Cys His Lys Cys Xaa Met Gly Cys Ile Xaa Cys Cys Ile
1 5 10

<210> 215
<211> 238
<212> DNA
<213> Conus tessulatus

<400> 215
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtgtgcttct gtttcccctt 60
actgctgttc cgctggatgg agatcaacct gcagaccaac ctgcagagcg tacgcagaac
gagcagcatc cttgttatga tcagaaaaga aagtgttgcc ggccgccatg cgccatgagc 120
tgccgcattgg cttaggtttg ctattaatga taacgtgttg atgacccaact ttctcgag 180
238

<210> 216
<211> 68
<212> PRT
<213> Conus tessulatus

<400> 216
Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Val Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30

Gln Pro Ala Glu Arg Thr Gln Asn Glu Gln His Pro Leu Tyr Asp Gln
35 40 45

Lys Arg Lys Cys Cys Arg Pro Pro Cys Ala Met Ser Cys Gly Met Ala
50 55 60

Arg Cys Cys Tyr
65

<210> 217
<211> 18
<212> PRT
<213> Conus tessulatus

<220>
<221> PEPTIDE
<222> (1)..(18)
<223> Xaa at residue 5 and 6 is Pro or Hyp; Xaa at residue 18 is Tyr, 1

25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 217
 Lys Cys Cys Arg Xaa Xaa Cys Ala Met Ser Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Xaa

<210> 218
 <211> 564
 <212> DNA
 <213> Conus textile

<400> 218
 gagtcaaccc actgtcacgc caagagcgg a gccacagct aaggcaagaa ggatcgatag 60
 cagttcatga tgtctaaact gggagccttg ttgaccatct gtctacttct gtttccctt 120
 actgctgttc cgctggatgg agatcaacat gcagaccaac ctgcacagcg tctgcaggac 180
 cgcattccaa ctgaagatca tcccttattt gatcccaaca aacggtgttgc cccgccggtg 240
 gcatgcaaca tgggatgcaa gccttgttgc ggtgaccag ctttgttatac gcggtctcat 300
 gaagtgtcta atgaataagt aaaacgattt cagttcggtt cagatttgcgtt gttgtat 360
 ggtctaaaga ttaatgacca aactgttctt ttgatccggaa tttcacgtt tttctcgatt 420
 cctattcaac actagataag ttaatcacga cagatctgat tttccatcaa tgccttgctt 480
 tttggtctgt catataaatac ttgttatat ttaatttctc gtcactttca acacgcacac 540
 acacacacac acacacgcgc ggcg 564

<210> 219
 <211> 69
 <212> PRT
 <213> Conus textile

<400> 219
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Gln Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
 35 40 45
 Asp Pro Asn Lys Arg Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys
 50 55 60

Lys Pro Cys Cys Gly
 65

<210> 220
 <211> 16
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3, 4 and 13 is Pro or Hyp

<400> 220
 Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Lys Xaa Cys Cys Gly
 1 5 10 15

<210> 221

<211> 780

<212> DNA

<213> Conus textile

<400> 221

ggatccagac gacaaagaag agtcaaccca ctgccacgtc aagagcagag cccacagcta	60
agacaagaag gatcgatagc agttcatgtat gtttaactg ggagtcttgt tgaccatctg	120
tctccttctg tttccctta atgctgttcc gttggatgga gatcaacctg cagaccaacc	180
tgcagagcgt ctgctggacg acatttcatt tgaaaataat cccttttatg atcccgc当地	240
acggtgttgc aggacttgct tcggttgcac accttggatggatgaccag cctcatcaag	300
tgtctaacaatg ataagtaaag cgattgcagt ctcgttcaga ttacttttg tattctggc当地	360
taaagattaa tgaccaaact cttctttga tccggatgta catatatttc tcgattccata	420
tccaacgcta gataagctaa tcacgacaga tctgatttc tgtcaatgcc ttgcttttg	480
gtctctcata tcactttgt ttatattaa ttctcgtca ctatatatata atatacacac	540
acacacacac ggaattccga ttgtccagta ccgttctgg gatcgaggta ttgctgc当地	600
ggcttattct gtactcttt ctctcgct tgatagtgat gtcttctact cccatctgtg	660
ctaccctgg cttgatctt gataggcgtg tgcccttcac tggttataaa cccctctgat	720
cctactctct ggacgcctcg ggggccccaaac ctccaaataa agcgacatcc aatgaaaaaa	780

<210> 222

<211> 66

<212> PRT

<213> Conus textile

<400> 222

Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe	
1 5 10 15	

Ser Leu Asn Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro	
20 25 30	

Ala Glu Arg Leu Leu Asp Asp Ile Ser Phe Glu Asn Asn Pro Phe Tyr	
35 40 45	

Asp Pro Ala Lys Arg Cys Cys Arg Thr Cys Phe Gly Cys Thr Pro Cys	
50 55 60	

Cys Gly
 65

<210> 223

<211> 12

<212> PRT

<213> Conus textile

<220>

<221> PEPTIDE

<222> (1)..(12)

<223> Xaa at residue 10 is Pro or Hyp

<400> 223

Cys	Cys	Arg	Thr	Cys	Phe	Gly	Cys	Thr	Xaa	Cys	Cys
1				5				10			

<210> 224

<211> 456

<212> DNA

<213> Conus textile

<400> 224

ggaacagtca	accccacagc	cacgccaaga	gcagacagcc	acagctacgt	gaagaagggt	60
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ggagagaggt	tcatgatgtt	gaaaatggga	gtggtgctat	tcatcttct	ggtactgttt	120
------------	------------	------------	------------	-----------	------------	-----

ccccctggcaa	cgctccagct	ggatgcagat	caacctgttag	aacgatatgc	ggagaacaaa	180
-------------	------------	------------	-------------	------------	------------	-----

cagctcctca	acccagatga	aaggaggaa	atcctattgc	ctgctctgag	gaagttctgc	240
------------	------------	-----------	------------	------------	------------	-----

tgtgattcga	attggtgcca	catttcggat	tgtgagtgt	gctacggta	gcgccgaaca	300
------------	------------	------------	-----------	-----------	------------	-----

tccatggcac	tgtgctggc	ggtttcatcc	caacaacgac	agcgtttgtt	gatttcatgt	360
------------	-----------	------------	------------	------------	------------	-----

atcattgcgc	ccacgtctct	tgtctaagaa	tgacgaacat	gattgcactc	tggttcagat	420
------------	------------	------------	------------	------------	------------	-----

ttcgtgttct	tttctgacaa	taaatgacaa	acctcc			456
------------	------------	------------	--------	--	--	-----

<210> 225

<211> 70

<212> PRT

<213> Conus textile

<400> 225

Met	Met	Leu	Lys	Met	Gly	Val	Val	Leu	Phe	Ile	Phe	Leu	Val	Leu	Phe
1				5			10				15				

Pro	Leu	Ala	Thr	Leu	Gln	Leu	Asp	Ala	Asp	Gln	Pro	Val	Glu	Arg	Tyr
			20				25				30				

Ala	Glu	Asn	Lys	Gln	Leu	Leu	Asn	Pro	Asp	Glu	Arg	Arg	Glu	Ile	Leu
	35					40				45					

Leu	Pro	Ala	Leu	Arg	Lys	Phe	Cys	Cys	Asp	Ser	Asn	Trp	Cys	His	Asp
	50				55			60							

Cys	Glu	Cys	Cys	Tyr	Gly
65				70	

<210> 226

<211> 17

<212> PRT

<213> Conus textile

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 is Trp or bromo-Trp; Xaa at residue 17 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 226

Phe	Cys	Cys	Asp	Ser	Asn	Xaa	Cys	His	Ile	Ser	Asp	Cys	Xaa	Cys	Cys
1				5				10			15				

Xaa

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<210> 227
<211> 456
<212> DNA
<213> Conus textile

<220>
<221> misc_feature
<222> (1)..(456)
<223> n may be any nucleotide

<400> 227
caaggaacag tcaaccccac agccacgcc a g a g c a g a c a g c a g c t a c g t g a a g a a g   60
ggtggagaga g g t t c g t g a t g t g a a a a t g g g a g t g g t g c t a t t c a t c t t c c t g g t a c t g   120
t t t c c c t g g c a a c g c t c c a g t g g a t g c a g t c a a c c t g t a g a a c g a t a t g c g g a g a a c   180
a a a c a g c t c c t c a g c c c a g a t g a a g g a g g g a a a t c a t a t t g c a t g c t c t g g g a c g c g a   240
t g c t g t t c t t g g a t g t g t g c a c c a c c c g a g t t g a c t t g c t g c g g t t a c g c c g a a c a   300
t c c a t g g c g c t g t g c t g g g c g g t t t a t c c a a c a c g a c a g c t t g t t c a t g t a t c a t t g c g c   360
a t c a t t g c g c c c a c g t c t c t g t c t a a g a a t g a c a c a t g a t t g c a c t c t g g t t c a g a t   420
t t c g t g t t c t t t c t g a c a a a t a a t g a c a a a a a c n c c   456

<210> 228
<211> 70
<212> PRT
<213> Conus textile

<400> 228
Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe Pro
1           5           10          15

Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr Ala
20          25          30

Glu Asn Lys Gln Leu Leu Ser Pro Asp Glu Arg Arg Glu Ile Ile Leu
35          40          45

His Ala Leu Gly Thr Arg Cys Cys Ser Trp Asp Val Cys Asp His Pro
50          55          60

Ser Cys Thr Cys Cys Gly
65          70

<210> 229
<211> 15
<212> PRT
<213> Conus textile

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 10 is Pro or Hyp; Xaa at residue 4 is Trp or bromo
      -Tr

<400> 229
Cys Cys Ser Xaa Asp Val Cys Asp His Xaa Ser Cys Thr Cys Cys
1           5           10          15

```

<210> 230
<211> 235
<212> DNA
<213> Conus textile

<400> 230
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccctt 60
actgctcttc cgctggatgg agatcaaccc gcagaccaag ctgcagagcg tatgcaggcc 120
gagcagcatc ccttgttga tcagaaaaga cggtgctgca agttccatg ccccgatagt 180
tgcaagatatt tgtgttgcgg gtgatgataa cgtgttgatg accaacttgc tcgag 235

<210> 231
<211> 67
<212> PRT
<213> Conus textile

<400> 231
Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15
Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30
Gln Ala Ala Glu Arg Met Gln Ala Glu Gln His Pro Leu Phe Asp Gln
35 40 45
Lys Arg Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Arg Tyr Leu
50 55 60

Cys Cys Gly
65

<210> 232
<211> 16
<212> PRT
<213> Conus textile

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 3 and 8 is Pro or Hyp; Xaa at residue 13 is Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 232
Arg Cys Cys Lys Phe Xaa Cys Xaa Asp Ser Cys Arg Xaa Leu Cys Cys
1 5 10 15

<210> 233
<211> 321
<212> DNA
<213> Conus tulipa

<400> 233
cgacctcaag agggatcgat agcagttcat gtctaaactg gagtcttgt tgacaatctg 60
tctgcttctg ttccccctta ctgctctgcc gatggatgga gatgaacctg cagaccgacc 120
tgcagagcgt atgcaggaca acatttcata tgagcagcat ccctgtttg aggagagaca 180
cgatgttgc aaggggcccg aaggatgctc ctccagagaa tgcagacccc aacattgttgc 240

cggtcgacga taacgtttg agggccaact ttgttatcac ggctacgtca agtgttagt 300
 gaataagtaa aatgattgca g 321
 <210> 234
 <211> 74
 <212> PRT
 <213> Conus tulipa
 <400> 234
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asp Arg Pro Ala 20 25 30
 Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Leu Phe Glu 35 40 45
 Glu Arg His Gly Cys Cys Lys Gly Pro Glu Gly Cys Ser Ser Arg Glu 50 55 60
 Cys Arg Pro Gln His Cys Cys Gly Arg Arg 65 70
 <210> 235
 <211> 21
 <212> PRT
 <213> Conus tulipa
 <220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 8 and 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 and 17 is Pro or Hy
 <400> 235
 His Gly Cys Cys Lys Gly Xaa Xaa Gly Cys Ser Ser Arg Xaa Cys Arg 1 5 10 15
 Xaa Gln His Cys Cys 20
 <210> 236
 <211> 287
 <212> DNA
 <213> Conus figulinus
 <400> 236
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctgtct 60
 gcttctgatt ccccttactg ctcttcgct gcatggagat caacctgcag accgaccctgc 120
 agagcgtatg caggatggaa tttcatctga acagcatccc atgtttgatc ccgtcagacg 180
 gtgttgcccg tggccatgca acataggatg cgtaccttgt tggtgatgac cagtttgtt 240
 atcgcggcct catcaaatgt ctaatgaata agtaaaaacga ttgcagt 287
 <210> 237
 <211> 67
 <212> PRT
 <213> Conus figulinus
 <400> 237

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Ile
 1 5 10 15

Pro Leu Thr Ala Leu Ser Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu Gln His Pro Met Phe
 35 40 45

Asp Pro Val Arg Arg Cys Cys Pro Trp Pro Cys Asn Ile Gly Cys Val
 50 55 60

Pro Cys Cys
 65

<210> 238

<211> 14

<212> PRT

<213> Conus figulinus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 3, 5 and 12 is Pro or Hyp; Xaa at residue 4 is Trp
 or bromo-Tr

<400> 238

Cys Cys Xaa Xaa Xaa Cys Asn Ile Gly Cys Val Xaa Cys Cys
 1 5 10

<210> 239

<211> 283

<212> DNA

<213> Conus figulinus

<400> 239

caagaggat cgatagcagt tcatgatgtt taaaactggga gtcctgttga ccatctgtat 60

gcttctgttt ccctttaactg ctcttccgct ggatggagag caacctgcag accaacacctgc 120

agagcgcatg cagtatgaca tggtagtgc aatgaatccc tggtttgatc ccgtcaaaag 180

gtgctgctcg aagaactgctg cagtatgcat cccttggatc ccgttaactga ccagcttgat 240

tatcgccggcc aaggctctaa tgaataagta aaacgattgc agt 283

<210> 240

<211> 67

<212> PRT

<213> Conus figulinus

<400> 240

Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Met Leu Leu Phe
 1 5 10 15

Pro Phe Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Met Gln Tyr Asp Met Leu Arg Ala Met Asn Pro Trp Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Pro
 50 55 60

Cys Cys Pro

65

<210> 241
<211> 14
<212> PRT
<213> Conus figulinus

<220>
<221> PEPTIDE
<222> (1)...(14)
<223> Xaa at residue 11 and 14 is Pro or Hyp

<400> 241
Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Xaa Cys Cys Xaa
1 5 10

<210> 242
<211> 286
<212> DNA
<213> Conus figulinus

<400> 242
caagaggat cgatagcagt tcatgatgtc taaaactgaga gtcttggta ccttatgtct 60
gcttcgttt ccccttactg ctcttccgct gaatgaagat caacctgcag agcgtatgca 120
ggacgacaat tcatctgagc agcacccctt gtatgaccac aaacgaaagt gttgccggtg 180
gccatgcccc gcaagatgcg gctcttggtg cctgtaataa cgtgttggcc aactttgtta 240
tcacggccac gtcaaatgtt taatgaataa gtaaaacgat tgca 286

<210> 243
<211> 64
<212> PRT
<213> Conus figulinus

<400> 243
Met Met Ser Lys Leu Arg Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asn Glu Asp Gln Pro Ala Glu Arg Met
20 25 30
Gln Asp Asp Asn Ser Ser Glu Gln His Pro Leu Tyr Asp His Lys Arg
35 40 45

Lys Cys Cys Arg Trp Pro Cys Pro Ala Arg Cys Gly Ser Cys Cys Leu
50 55 60

<210> 244
<211> 15
<212> PRT
<213> Conus figulinus

<220>
<221> PEPTIDE
<222> (1)...(15)
<223> Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Tr

<400> 244
Cys Cys Arg Xaa Xaa Cys Xaa Ala Arg Cys Gly Ser Cys Cys Leu
1 5 10 15

<210> 245

<211> 301
<212> DNA
<213> Conus figulinus

<400> 245
caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccttatgtct 60
gcttcgttt cccctgactg ctcttccgct ggatgaagat caagctgcag accgacctgc 120
agagcgtatg cagggcatgt catctgaaca gcatcccttc tttgatcccg tcaaacggtg 180
ttgcgagttg tcacgctgcc ttggatgcgt cccttgttgc acatcttaat aacgtgtgga 240
tgaccaactg tgttatcacf gccacgtcaa gtgtctaatt aataagtaaa atgattgcag 300
t 301

<210> 246
<211> 68
<212> PRT
<213> Conus figulinus

<400> 246
Met Met Ser Lys Leu Gly Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Ala Ala Asp Arg Pro
20 25 30
Ala Glu Arg Met Gln Gly Met Ser Ser Glu Gln His Pro Phe Phe Asp
35 40 45
Pro Val Lys Arg Cys Cys Glu Leu Ser Arg Cys Leu Gly Cys Val Pro
50 55 60
Cys Cys Thr Ser
65

<210> 247
<211> 16
<212> PRT
<213> Conus figulinus

<220>
<221> PEPTIDE
<222> (1)...(16)
<223> Xaa at residue 3 and 12 is Pro or Hyp

<400> 247
Cys Cys Xaa Leu Ser Arg Cys Leu Gly Cys Val Xaa Cys Cys Thr Ser
1 5 10 15

<210> 248
<211> 301
<212> DNA
<213> Conus figulinus

<400> 248
caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccttatgtct 60
gcttcgttt cccctgactg ctcttccgct ggatgaagat caacctgcag accgacctgc 120
agagcgtatg cagggcatgt catctgaaca gcatcccttc tttgatcccg tcaaacggtg 180
ttgcgagttg tcaaaaatgcc atggatgcgt cccttgttgc ataccttaat aacgtgcgga 240

tgaccaactg tgttatcacy gccacgtcaa gtgtctaatt aataagtaaa atgattgcag 300
 t 301
 <210> 249
 <211> 68
 <212> PRT
 <213> Conus figulinus
 <400> 249
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Gly Met Ser Ser Glu Gln His Pro Phe Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Glu Leu Ser Lys Cys His Gly Cys Val Pro
 50 55 60
 Cys Cys Ile Pro
 65
 <210> 250
 <211> 16
 <212> PRT
 <213> Conus figulinus
 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 12 and 16 is Pro or Hy
 <400> 250
 Cys Cys Xaa Leu Ser Lys Cys His Gly Cys Val Xaa Cys Cys Ile Xaa
 1 5 10 15
 <210> 251
 <211> 298
 <212> DNA
 <213> Conus quercinus
 <400> 251
 caagagggtt cgatagcagt tcattatgtc taaaactcgga gtcttggta ccatctgtct 60
 ggttctgttt ccccttacag ctcttcagct ggatggagat caacctgcag accgacactgc 120
 agagcgtacg caggacattt catctgaaca gtatcgaaag tttgatcaga gacagaggtg 180
 ttgccgggtgg ccatgccccg gtagttgcag atgctgccgt tatcgtaac gtgttgtga 240
 ccagtttgtt tatacgtacc acgccaagtgt tctaacaat aagtaaaatg attgcagt 298
 <210> 252
 <211> 68
 <212> PRT
 <213> Conus quercinus
 <400> 252
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Gln Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro

20

25

30

Ala Glu Arg Thr Gln Asp Ile Ser Ser Glu Gln Tyr Arg Lys Phe Asp
 35 40 45

Gln Arg Gln Arg Cys Cys Arg Trp Pro Cys Pro Gly Ser Cys Arg Cys
 50 55 60

Cys Arg Tyr Arg
 65

<210> 253

<211> 18

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 7 and 9 is Pr
 o or Hyp; Xaa at residue 6 is Trp or bromo-Trp; Xaa at residue 17
 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-
 phospho-Ty

<400> 253

Xaa Arg Cys Cys Arg Xaa Xaa Cys Xaa Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Xaa Arg

<210> 254

<211> 313

<212> DNA

<213> Conus quercinus

<400> 254

caagagggtat ctagatcgat taaactggga gtcttggta ccatctgtct 60

gcttcgttt ccccttactg ctcttccact ggatggagat caacctgcag atcaatctgc 120

agagcgtacct gcagagcgta cgaggacga cattcagcag catccgttat atgatccgaa 180

aagaaggtgt tgccgttatac catgccccga cagctgccac ggatcttgct gctataagt 240

ataacatgtt gatggccagc ttgttatca cggccacgtc aagtgtctaa tgaataagta 300

aaacgattgc agt 313

<210> 255

<211> 72

<212> PRT

<213> Conus quercinus

<400> 255

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ser
 20 25 30

Ala Glu Arg Pro Ala Glu Arg Thr Gln Asp Asp Ile Gln Gln His Pro
 35 40 45

Leu Tyr Asp Pro Lys Arg Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser
 50 55 60

Cys His Gly Ser Cys Cys Tyr Lys
65 70

<210> 256

<211> 18

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 and 17 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 256

Arg Cys Cys Arg Xaa Xaa Cys Xaa Asp Ser Cys His Gly Ser Cys Cys
1 5 10 15

Xaa Lys

<210> 257

<211> 256

<212> DNA

<213> Conus wittigi

<400> 257

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccatt 60

actgctcttc cgggtgggtgg agatcagcct gcagaccgac ttgcagagcg tatgcaggac 120

gacacttcat ctgagcagca tccctttgaa aagagactac catcatgttg cgacttttag 180

aggcttgcg tagtaccagc atgcatacgt catcagtgtt gcacaggata acgtgttgat 240

gaccaacttt ctcgag 256

<210> 258

<211> 74

<212> PRT

<213> Conus wittigi

<400> 258

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Ile Thr Ala Leu Pro Val Gly Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30

Ala Glu Arg Met Gln Asp Asp Thr Ser Ser Glu Gln His Pro Phe Glu
35 40 45

Lys Arg Leu Pro Ser Cys Cys Asp Phe Glu Arg Leu Cys Val Val Pro
50 55 60

Ala Cys Ile Arg His Gln Cys Cys Thr Glu
65 70

<210> 259

<211> 23

<212> PRT

<213> Conus wittigi

<220>

<221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 8 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 14 is Pro or Hyp

<400> 259
 Leu Xaa Ser Cys Cys Asp Phe Xaa Arg Leu Cys Val Val Xaa Ala Cys
 1 5 10 15
 Ile Arg His Gln Cys Cys Thr
 20

<210> 260
 <211> 14
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 260
 Cys Cys Lys Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys Xaa
 1 5 10

<210> 261
 <211> 259
 <212> DNA
 <213> Conus tulipa

<220>
 <221> misc_feature
 <222> (1)..(259)
 <223> n may be any nucleotide

<400> 261
 ggatccatga tgtctaaact gggagtcttg ttgacaatct gtctgcttct gtttcccctt 60
 actgctctgc ccatggatgg agatgaacct gcagaccgac ctgcagagcg tatgcaggac 120
 aacatttcat ctgagcagca tcccttgttt gaggagagac acggatgttg cgagggggcg 180
 aaggatgct cctccagaga atgcagaccc caacattgtt gcggtcgacg ataacgttt 240
 gatgaccaac tntctcgag 259

<210> 262
 <211> 75
 <212> PRT
 <213> Conus tulipa

<400> 262
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu so Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45
 Glu Glu Arg His Gly Cys Cys Glu Gly Pro Lys Gly Cys Ser Ser Arg
 50 55 60

Glu Cys Arg Pro Gln His Cys Cys Gly Arg Arg
65 70 75

<210> 263
<211> 21
<212> PRT
<213> Conus tulipa

<220>
<221> PEPTIDE
<222> (1)..(21)
<223> Xaa at residue 5 and 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 and 17 is Pro or Hy

<400> 263
His Gly Cys Cys Xaa Gly Xaa Lys Gly Cys Ser Ser Arg Xaa Cys Arg
1 5 10 15

Xaa Gln His Cys Cys
20

<210> 264
<211> 262
<212> DNA
<213> Conus aurisiacus

<220>
<221> misc_feature
<222> (1)..(262)
<223> n may be any nucleotide

<400> 264
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
actgcttttc ccatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
gacatttcat ctgagcagta tccctgttt gataagagac aaaagtgttg cactggagg 180
aaggggtcat gctccggcaa agcatgcaaa aatctcaaatt gttgctctgg acgataacgt 240
gttgatgacc aactttctcg an 262

<210> 265
<211> 76
<212> PRT
<213> Conus aurisiacus

<400> 265
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45

Asp Lys Arg Gln Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly
50 55 60

Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
65 70 75

<210> 266

<211> 23
<212> PRT
<213> Conus aurisiacus

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 1 is Gln or pyro-Glu

<400> 266
Xaa Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
20

<210> 267
<211> 239
<212> DNA
<213> Conus betulinus

<400> 267
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
actgctgttc cgttggatgg agatcaacct gcagaccaac ctgcagagcg tatgcagaac
gagcagcatc cctcggttga tcagaaaaga aggtgctgcc ggtggccatg ccccagtata 120
tgcggcatgg ctaggtgttg cttcgcatg ataacgtgtt gatgaccaac tttctcgag 180
239

<210> 268
<211> 71
<212> PRT
<213> Conus betulinus

<400> 268
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Glu Arg Met Gln Asn Glu Gln His Pro Ser Phe Asp Gln Lys Arg
35 40 45

Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
50 55 60

Cys Phe Val Met Ile Thr Cys
65 70

<210> 269
<211> 23
<212> PRT
<213> Conus betulinus

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or
bromo-Tr

<400> 269
Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Ile Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Phe Val Met Ile Thr Cys
20

<210> 270

<211> 226

<212> DNA

<213> Conus betulinus

<220>

<221> misc_feature

<222> (1)..(226)

<223> n may be any nucleotide

<400> 270

ggatccatga	tgtctaaact	gggagtcttg	ttgatcatct	gtctgcttct	gtttccctt	60
actgctgttc	cgctggatgg	agatcagcct	gcagagcgta	cgcagatcga	gcagcatccc	120
ttgttgacc	agaaaagaag	gtgttgccgg	tggccatgcc	ccagtagatg	cggcatggct	180
aggtgttgct	tcgtcatgat	aacgtgttga	tgancgacct	ctcnag		226

<210> 271

<211> 67

<212> PRT

<213> Conus betulinus

<400> 271

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Ile	Ile	Cys	Leu	Leu	Phe
1				5				10					15	

Pro	Leu	Thr	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	Pro	Ala	Glu	Arg	Thr
				20			25			30					

Gln	Ile	Glu	Gln	His	Pro	Leu	Phe	Asp	Gln	Lys	Arg	Arg	Cys	Cys	Arg
	35					40				45					

Trp	Pro	Cys	Pro	Ser	Arg	Cys	Gly	Met	Ala	Arg	Cys	Cys	Phe	Val	Met
	50				55				60						

Ile Thr Cys
65

<210> 272

<211> 23

<212> PRT

<213> Conus betulinus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or bromo-Tr

<400> 272

Arg	Cys	Cys	Arg	Xaa	Xaa	Cys	Xaa	Ser	A~	Cys	Gly	Met	Ala	Arg	Cys
1				5				1.				15			

Cys	Phe	Val	Met	Ile	Thr	Cys
				20		

<210> 273

<211> 262

<212> DNA

<213> Conus parius

<400> 273
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgatggatgg tgcataaccc gcagaccgac ttgttagagcg tatgcaggac 120
 aacatttcat ctgagcagca tcccttcttt gaaaagagaa gaggaggctg ttgcacacct 180
 ccgaagaaat gcaaagaccg agcctgcaaa cctgcacggtt gctgcggccc aggataacgt 240
 gttgatgacc aactttctcg cc 262

<210> 274
 <211> 76
 <212> PRT
 <213> Conus parius

<400> 274
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp
 50 55 60

Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
 65 70 75

<210> 275
 <211> 24
 <212> PRT
 <213> Conus parius

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 7, 8, 18 and 24 is Pro or Hyp

<400> 275
 Arg Gly Gly Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 276
 <211> 259
 <212> DNA
 <213> Conus parius

<400> 276
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgatggatgg tgcataaccc gcagaccgac ttgttagagcg tatgcaggac 120
 aacatttcat ctgagcagca tcccttcttt gaaaagagaa gaggctgtt cacacccctcg 180
 agaaaaatgca aagaccgagc ctgcaaacct gcacgttgtt gcggcccaagg ataacgtgtt 240
 gatgaccaac tttctcgag 259

<210> 277
<211> 75
<212> PRT
<213> Conus parius

<400> 277
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30
Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35 40 45
Glu Lys Arg Arg Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg
50 55 60
Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
65 70 75

<210> 278
<211> 23
<212> PRT
<213> Conus parius

<220>
<221> PEPTIDE
<222> (1)...(23)
<223> Xaa at residue 6, 7, 17 and 23 is Pro or Hyp

<400> 278
Arg Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys Lys
1 5 10 15
Xaa Ala Arg Cys Cys Gly Xaa
20

<210> 279
<211> 241
<212> DNA
<213> Conus coronatus

<400> 279
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccaatt 60
actgcccttc cgctggatga agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
attgcaactg aacagcatcc cttgtttgat cccgtcaaac ggtgctgcga ttggccatgc 180
atcccaggat gcacccttg ttgcttgcot tgataacgtg ttgatgacca actttctcga 240
g 241

<210> 280
<211> 68
<212> PRT
<213> Conus coronatus

<400> 280
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Ile Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45

Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ile Pro Gly Cys Thr Pro
 50 55 60

Cys Cys Leu Pro
 65

<210> 281
<211> 16
<212> PRT
<213> Conus coronatus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 5, 8, 12 and 16 is Pro or Hyp; Xaa at residue 4 is
Trp or bromo-Tr

<400> 281
Cys Cys Asp Xaa Xaa Cys Ile Xaa Gly Cys Thr Xaa Cys Cys Leu Xaa
1 5 10 15

<210> 282
<211> 244
<212> DNA
<213> Conus musicus

<400> 282
ggatccatga tgtctaaact gggagtcctg ttgaccatct gtctgcttct gtttcctctt 60
tctgctcttc cgatggatga agatcaactt gcagacctac ctgcagagcg tatgcgggac 120
actgcaactg tagatcatcc ctcctatgat cctgacaaag cgtgctgcga gcagagctgt 180
acaacatgct ttccgtgctg cttagccttga acacagtaac gtgttcatgt ccaaccttct 240
cgag 244

<210> 283
<211> 65
<212> PRT
<213> Conus musicus

<400> 283
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Ser Ala Leu Pro Met Asp Glu Asp Gln Leu Ala Asp Leu Pro
20 25 30

Ala Glu Arg Met Arg Asp Thr Ala Thr Val Asp His Pro Ser Tyr Asp
35 40 45

Pro Asp Lys Ala Cys Cys Glu Gln Ser Cys Thr Thr Cys Phe Pro Cys
50 55 60

Cys
65

<210> 284
<211> 14
<212> PRT

<213> Conus musicus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 4 is Glu or gamma-carboxy Glu; Xaa at residue 12 is Pro or Hy

<400> 284
Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Phe Xaa Cys Cys
1 5 10

<210> 285
<211> 14
<212> PRT
<213> Conus betulinus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 4 is Glu or gamma-carboxy Glu; Xaa at residue 12 is Pro or Hy

<400> 285
Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys
1 5 10

<210> 286
<211> 14
<212> PRT
<213> Conus betulinus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 11 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Tr

<400> 286
Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys Xaa
1 5 10

<210> 287
<211> 235
<212> DNA
<213> Conus pennaceus

<400> 287
ggatccatga tgtctaaaact gggagtcgg ttgaccatct gtctgcttct gtttcccctt 60
actgctcttc cgctggatgg agatcaacct gcataccaag ctgcagagcg tatgcaggcc 120
gagcatcatt ccttggttga tcagaaaaga cggtgctgca agtttccatg ccccgatagt 180
tgcaaataatt tgtgttgcgg gtgatgataa catgttgatg accaactttc ttgag 235

<210> 288
<211> 65
<212> PRT
<213> Conus pennaceus

<400> 288
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Tyr Gln Ala
 20 25 30

Ala Glu Arg Met Gln Ala Glu His His Pro Leu Phe Asp Gln Lys Arg
 35 40 45

Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Lys Tyr Leu Cys Cys
 50 55 60

Gly
 65

<210> 289
<211> 16
<212> PRT
<213> Conus pennaceus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 13 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 289
Arg Cys Cys Lys Phe Xaa Cys Xaa Asp Ser Cys Lys Xaa Leu Cys Cys
 1 5 10 15

<210> 290
<211> 241
<212> DNA
<213> Conus pulicarius

<400> 290
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
actgctcttc cgatggatgg tcatcaactt gcagaccgac ttgttagagcg tatgcaggac 120
aacatttcat ctgagcagca tcccttcttt gatcccgta aacggtgttg cgtcagctgt 180
tacatggat gcatcccttg ttgcttcttag taataacgtg ttgatgacca actttctcga 240
g 241

<210> 291
<211> 67
<212> PRT
<213> Conus pulicarius

<400> 291
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Asp Arg Leu
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu "ln His Pro Phe Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Val Ser Cys Tyr Met Gly Cys Ile Pro
 50 55 60

Cys Cys Phe
 65

<210> 292

<211> 14

<212> PRT

<213> Conus pulicarius

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Ty
r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 292

Cys Cys Val Ser Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe

1 5 10

<210> 293

<211> 244

<212> DNA

<213> Conus pulicarius

<400> 293

ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtgtccctt 60

actgctcttc cactggatga agatcaacctt gcagaccgac ctgcagagcg tatgcaggat 120

gacacttcag ctgcacagat tttcgggttt gatcccgatca aacggtgctg caaatggcta 180

tgctactcggt gatgcactcc ttgttgccat atttgataac gtgttgatga ccaactttct 240

cgag 244

<210> 294

<211> 67

<212> PRT

<213> Conus pulicarius

<400> 294

Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu Cys

1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Leu Ala Asp Arg Pro 20 25 30

Ala Glu Arg Met Gln Asp Asp Thr Ser Ala Ala Gln Ile Phe Gly Phe 35 40 45

Asp Pro Val Lys Arg Cys Cys Lys Leu Leu Cys Gly Cys Thr Pro Cys 50 55 60

Cys His Ile

65

<210> 295

<211> 16

<212> PRT

<213> Conus pulicarius

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Ty
r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 295

Cys Cys Lys Leu Leu Cys Xaa Ser Gly Cys Thr Xaa Cys Cys His Ile

1	5	10	15	
<210> 296				
<211> 259				
<212> DNA				
<213> Conus rattus				
<400> 296				
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttgcgttcccgctt				60
actgctcttc cgatggatgg tgcataacacct gcagaccgac ttgttagagcg tatacaggac				120
aacatttcat ctgagcagca tcccttcttt gaaaagagaa gaggtgttgcgcaccccg				180
aggaaatgca aagaccgagc ctgcaaacct gcacgttgcgcggcccagg ataacgttgc				240
gatgaccaac ttctcgag				259
<210> 297				
<211> 75				
<212> PRT				
<213> Conus rattus				
<400> 297				
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Val Phe				
1	5	10		15
Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu				
20	25		30	
Val Glu Arg Ile Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe				
35	40		45	
Glu Lys Arg Arg Gly Cys Cys Ala Pro Pro Arg Lys Cys Lys Asp Arg				
50	55		60	
Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly				
65	70		75	
<210> 298				
<211> 23				
<212> PRT				
<213> Conus rattus				
<220>				
<221> PEPTIDE				
<222> (1)..(23)				
<223> Xaa at residue 6, 7, 17 and 23 is Pro or Hyp				
<400> 298				
Arg Gly Cys Cys Ala Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys Lys				
1	5	10		15
Xaa Ala Arg Cys Cys Gly Xaa				
20				
<210> 299				
<211> 262				
<212> DNA				
<213> Conus stercusmuscarum				
<400> 299				
ggatccatga tgtctaaact gggagtcttg ttgacaatct gtctgcttgcgttcccgctt				60
attgctcttc cgatggatgg agatcaacacct gcagaccgac ctgcagagcg tatgcaggac				120

gacatttcat ctgagaagca tcccttggtt gataagagac aacgggtttg caatggcgg 180
 aggggatgct ccagcagatg gtgcagatg cactcacgtt gttgcggtcg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 300
 <211> 76
 <212> PRT
 <213> Conus stercusmuscarum

<400> 300
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Ile Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Lys His Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg
 50 55 60

Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 301
 <211> 22
 <212> PRT
 <213> Conus stercusmuscarum

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 14 is Trp or
 bromo-Tr

<400> 301
 Xaa Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg Xaa Cys Arg
 1 5 10 15

Asp His Ser Arg Cys Cys
 20

<210> 302
 <211> 241
 <212> DNA
 <213> Conus ebraceus

<400> 302
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctttc cactggatga aggtcaacct gcagacctac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cctgtcaaac ggtgttgcga gcagccatgc 180
 tacatggat gcatcccttg ttgcttctaa taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 303
 <211> 67
 <212> PRT

<213> Conus ebraceus

<400> 303

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Phe
1				5					10					15

Pro	Leu	Thr	Ala	Leu	Pro	Leu	Asp	Glu	Gly	Gln	Pro	Ala	Asp	Leu	Pro
	20					25					30				

Ala	Glu	Arg	Met	Gln	Asp	Ile	Ala	Thr	Glu	Gln	His	Pro	Leu	Phe	Asp
	35				40				45						

Pro	Val	Lys	Arg	Cys	Cys	Glu	Gln	Pro	Cys	Tyr	Met	Gly	Cys	Ile	Pro
	50				55				60						

Cys Cys Phe

65

<210> 304

<211> 15

<212> PRT

<213> Conus ebraceus

<220>

<221> PEPTIDE

<222> (1)...(15)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 304

Cys	Cys	Xaa	Gln	Xaa	Cys	Xaa	Met	Gly	Cys	Ile	Xaa	Cys	Cys	Phe
1				5				10				15		

<210> 305

<211> 241

<212> DNA

<213> Conus ebraceus

<400> 305

ggatccatga	tgtctaaact	gggagtcttg	ttgaccatct	gtctgcttct	gtttcccctt	60
------------	------------	------------	------------	------------	------------	----

actgctcttc	cactggatga	agatcaacct	gcagacctac	ctgcagagcg	tatgcaggac	120
------------	------------	------------	------------	------------	------------	-----

attgcaactg	aacagcatcc	cttgtttgat	cctgtcaaac	ggtgctgcgc	gcagccatgc	180
------------	------------	------------	------------	------------	------------	-----

tacatggat	gcatcccttg	ttgcttctaa	taataacgtg	ttgatgacca	actttctcga	240
-----------	------------	------------	------------	------------	------------	-----

g						241
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<210> 306

<211> 67

<212> PRT

<213> Conus ebraceus

<400> 306

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Phe
1				5				10					15	

Pro	Leu	Thr	Ala	Leu	Pro	Leu	Asp	Glu	Asp	Gln	Pro	Ala	Asp	Leu	Pro
	20					25				30					

Ala	Glu	Arg	Met	Gln	Asp	Ile	Ala	Thr	Glu	Gln	His	Pro	Leu	Phe	Asp
	35				40				45						

Pro	Val	Lys	Arg	Cys	Cys	Ala	Gln	Pro	Cys	Tyr	Met	Gly	Cys	Ile	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

60

Cys Cys Phe
65

<210> 307
<211> 15
<212> PRT
<213> Conus ebraceus

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 307
Cys Cys Ala Gln Xaa Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
1 5 10 15

<210> 308
<211> 238
<212> DNA
<213> Conus flavidus

<400> 308
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccccctt 60
actgctgttc cgttggatgg agatcaacct gcagaccagc ctgcagagcg tatgcagaac 120
gagcagcatc cttgtttga tcagaaaaga aggtgctgcc ggtggccatg ccccagtata 180
tgccggcatgg ctaggtgttg ctctgtatga taacgtgttg atgaccaact ttctcgag 238

<210> 309
<211> 67
<212> PRT
<213> Conus flavidus

<400> 309
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30
Ala Glu Arg Met Gln Asn Glu Gln His Pro Leu Phe Asp Gln Lys Arg
35 40 45
Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
50 55 60

Cys Ser Ser
65

<210> 310
<211> 19
<212> PRT
<213> Conus flavidus

<220>
<221> PEPTIDE
<222> (1)..(19)
<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or

bromo-Tr

<400> 310
Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Ile Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Ser Ser

<210> 311
<211> 245
<212> DNA
<213> Conus miliaris

<220>
<221> misc_feature
<222> (1)..(245)
<223> n may be any nucleotide

<400> 311
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccaatt 60
actgccttc cactggatga agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
attgcaactg aacagcatcc cttgtttgat cccgtcaaac ggtgttgcga ttggccatgc 180
agcgcaggat gctacccttg ttgcttccct taataacgtg ttgatgacca actnangnaa 240
aaaaaa 245

<210> 312
<211> 68
<212> PRT
<213> Conus miliaris

<400> 312
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Ile Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
35 40 45

Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ser Ala Gly Cys Tyr Pro
50 55 60

Cys Cys Phe Pro
65

<210> 313
<211> 16
<212> PRT
<213> Conus miliaris

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 5, 12 and 16 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Trp; Xaa at residue 11 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 313
Cys Cys Asp Xaa Xaa Cys Ser Ala Gly Cys Xaa Xaa Cys Cys Phe Xaa
1 5 10 15

<210> 314
 <211> 230
 <212> DNA
 <213> Conus miliaris

<220>
 <221> misc_feature
 <222> (1)..(230)
 <223> n may be any nucleotide
 <400> 314
 ggatccatga tgtctaaact gggagtggtg ccattcgctt ttctggcct gtttcccctg 60
 gcaacactcc aactggatgc agatcaacct gcagaccgac ctgcgcgtaa aaagggcatt 120
 gcaactaaac ggcattccctt gtctgatcct gtcagagggt gttgccctcc aatgtgcaca 180
 ccatgcttcc cttgctgttt tcgttaataa cgtgttgatg natgtgnan 230

<210> 315
 <211> 66
 <212> PRT
 <213> Conus miliaris

<400> 315
 Met Met Ser Lys Leu Gly Val Val Pro Phe Val Phe Leu Val Leu Phe
 1 5 10 15

Pro	Leu	Ala	Thr	Leu	Gln	Leu	Asp	Ala	Asp	Gln	Pro	Ala	Asp	Arg	Pro
	20				25					30					

Ala	Arg	Lys	Lys	Gly	Ile	Ala	Thr	Lys	Arg	His	Pro	Leu	Ser	Asp	Pro
	35				40					45					

Val	Arg	Gly	Cys	Cys	Pro	Pro	Met	Cys	Thr	Pro	Cys	Phe	Pro	Cys	Cys
	50				55					60					

Phe Arg
 65

<210> 316
 <211> 16
 <212> PRT
 <213> Conus miliaris

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 9 and 12 is Pro or Hyp; Xaa at residue 5 is Tyr , 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho -Tyr

<400> 316
 Gly Cys Cys Xaa Xaa Met Cys Thr Xaa Cys Phe Xaa Cys Cys Phe Arg
 1 5 10 15

<210> 317
 <211> 295
 <212> DNA
 <213> Conus ammiralis

<400> 317
 caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttggat ccatctgtct 60
 gcttctgttt ccccttactg ctcttccgct ggatggagat caacctgcag accaagctgc 120

agagcgtatg caggccgagc agcatccctt gtttgatcag aaaagacggt gttgcaggtt 180
 tccatgcccc gatacttgca gacatttgcg ttgcgggtga tgataacgtg ctgatgaccc 240
 actttgtcat cacggctacg tcaagtgtct aatgaata; taaaatgatt gcagt 295
 <210> 318
 <211> 65
 <212> PRT
 <213> Conus ammiralis

<400> 318
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro	Leu	Thr	Ala	Leu	Pro	Leu	Asp	Gly	Asp	Gln	Pro	Ala	Asp	Gln	Ala
							20		25				30		

Ala Glu Arg Met Gln Ala Glu Gln His Pro Leu Phe Asp Gln Lys Arg
 35 40 45

Arg	Cys	Cys	Arg	Phe	Pro	Cys	Pro	Asp	Thr	Cys	Arg	His	Leu	Cys	Cys
						55				60					

Gly
 65

<210> 319
 <211> 16
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 and 8 is Pro or Hyp

<400> 319
 Arg Cys Cys Arg Phe Xaa Cys Xaa Asp Thr Cys Arg His Leu Cys Cys
 1 5 10 15

<210>	320														
<211>	267														
<212>	DNA														
<213>	Conus ammiralis														

<400> 320
 caagagggat cgatagcagt tcgtatgtt taaactggga gtcttgctga ccatctgtct 60
 acttctgttt tcccttaatg ctgttccgct ggatggagat caacctgcag accaacctgc 120
 agagcgtctg ctggacgaca tttcatctga aaataatccc ttttatgatc ccggccaaacg 180
 gtgttgcattg acttgcttcg gttgcacacc ttgttgtgga tgaccagcct catcaagtgt 240
 ctaacgaata agtaaaacga ttgcagt 267

<210> 321
 <211> 66
 <212> PRT
 <213> Conus ammiralis

<400> 321
 Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Asn Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Leu Asp Asp Ile Ser Ser Glu Asn Asn Pro Phe Tyr
 35 40 45

Asp Pro Ala Lys Arg Cys Cys Met Thr Cys Phe Gly Cys Thr Pro Cys
 50 55 60

Cys Gly
 65

<210> 322
<211> 12
<212> PRT
<213> Conus ammiralis

<220>
<221> PEPTIDE
<222> (1)..(12)
<223> Xaa at residue 10 is Pro or Hyp

<400> 322
Cys Cys Met Thr Cys Phe Gly Cys Thr Xaa Cys Cys
 1 5 10

<210> 323
<211> 294
<212> DNA
<213> Conus ammiralis

<400> 323
caagaaggat cgatacgagt tcatgatgtc taaactggga gccttggta ccatctgtct 60
acttctgttt tcccttactg ctgttccgct gnatggagat caacatgcag accaacctgc 120
agagcgtctg caggaccgccc ttccaactga aaatcatccc ttatatgatc ccgtcaaacg 180
gtgttgcgat gattcggaat gcgactattc ttgctggcct tgctgtattt tttcataacc 240
tttgttatcg cggcctcatc ctatgtcaa atgaataagt aaaacgattt cagt 294

<210> 324
<211> 71
<212> PRT
<213> Conus ammiralis

<400> 324
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Ile Phe Ser
 65 70

<210> 325
<211> 18

<212> PRT
<213> Conus ammiralis

<220>
<221> PEPTIDE
<222> (1)..(18)
<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 325
Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
1 5 10 15

Phe Ser

<210> 326
<211> 284
<212> DNA
<213> Conus ammiralis

<400> 326
caagagggtt cgatagcagt tcatgatgtt taaactcgga gtcttgctga ccatctgtct 60
acttctgttt tccctaattt ctgttccgct ggatggagat caacatgcag accaacctgc 120
agagcgtctg caggaccgccc ttccaactga aaatcatccc ttatatgatc ccgtcaaacg 180
gtgttgcagg ttgttatgcc tcagttgcaa cccttgggttggatgaccag ctttgttatac 240
acggcctcat caagtgtctta atgaataagt aaaacgattt cagt 284

<210> 327
<211> 67
<212> PRT
<213> Conus ammiralis

<400> 327
Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Phe
1 5 10 15

Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30

Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
35 40 45

Asp Pro Val Lys Arg Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Pro
50 55 60

Cys Cys Gly
65

<210> 328
<211> 13
<212> PRT
<213> Conus ammiralis

<220>
<221> PEPTIDE
<222> (1)..(13)
<223> Xaa at residue 11 is Pro or Hyp

<400> 328

Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Xaa Cys Cys
 1 5 10

<210> 329
<211> 289
<212> DNA
<213> Conus ammiralis

<400> 329
caagaaggat cgatacgagt tcatgatgtc taaaactggga gccttgttga ccatctgtct 60
acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacacctc
agagcgtctg caggaccgca ttccaactga agatcatccc ttatttgatc ccaacaaacg 120
gtgttgcgat gattcggaat gcggctattc atgctggcct tgctgttatg gataagctt 180
gttatcgcgg cctcatccag tgtcaacgaa taagtaaaac gattgcagt 240
289

<210> 330
<211> 70
<212> PRT
<213> Conus ammiralis

<400> 330
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30
Ala Glu Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
35 40 45
Asp Pro Asn Lys Arg Cys Cys Asp Asp Ser Glu Cys Gly Tyr Ser Cys
50 55 60
Trp Pro Cys Cys Tyr Gly
65 70

<210> 331
<211> 16
<212> PRT
<213> Conus ammiralis

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 and 16 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 331
Cys Cys Asp Asp Ser Xaa Cys Gly Xaa Ser Cys Xaa Xaa Cys Cys Xaa
1 5 10 15

<210> 332
<211> 272
<212> DNA
<213> Conus spurius

<400> 332
caagaaggat cgatacgagt tcatgatgtc taaaactggga gtcttgcgtga ccatctgtct 60

gcttctgttt ccacgtactt ctcttcgct ggatggagat caacctgcag tccgatctgc 120
 aaagcgtatg cattcatcta tacagcgtcg tttcttgat cccgtcaaac ggtgttgc 180
 tagatgcagc gagtgcaacc cttgttgtgg atgaccagct ttgtcatcgc ggcctcatta 240
 agtgtctaat gaataagtaa aatgattgca gt 272

<210> 333
 <211> 63
 <212> PRT
 <213> Conus spurius

<400> 333
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Arg Thr Ser Leu Pro Leu Asp Gly Asp Gln Pro Ala Val Arg Ser
 20 25 30

Ala Lys Arg Met His Ser Ser Ile Gln Arg Arg Phe Phe Asp Pro Val
 35 40 45

Lys Arg Cys Cys Pro Arg Cys Ser Glu Cys Asn Pro Cys Cys Gly
 50 55 60

<210> 334
 <211> 12
 <212> PRT
 <213> Conus spurius

<220>
 <221> PEPTIDE
 <222> (1)...(12)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 3 and 10 is Pro or Hy

<400> 334
 Cys Cys Xaa Arg Cys Ser Xaa Cys Asn Xaa Cys Cys
 1 5 10

<210> 335
 <211> 293
 <212> DNA
 <213> Conus omaria

<400> 335
 caagaggat cgatagcagt tcattatgtc taaaactggga gtctcggtga ccatctgtct 60
 acttctatcc tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatthaatc ccgtcaaacg 180
 gtgttgcgtat gaggaagaat gcagcgtgc atgctggct tgggttggg ggtgatcagc 240
 ttgttatcg cggcctcatc aagtgtctaa tgaataagta aatgattgc agt 293

<210> 336
 <211> 70
 <212> PRT
 <213> Conus omaria

<400> 336
 Met Met Ser Lys Leu Gly Val Ser Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45

Asn Pro Val Lys Arg Cys Cys Asp Glu Glu Glu Cys Ser Ser Ala Cys
 50 55 60

Trp Pro Cys Cys Trp Gly
 65 70

<210> 337

<211> 16

<212> PRT

<213> Conus omaria

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 4, 5 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-T r

<400> 337

Cys Cys Asp Xaa Xaa Xaa Cys Ser Ser Ala Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 338

<211> 293

<212> DNA

<213> Conus omaria

<400> 338

caagaaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga tcatactgtct 60

acttctgtgt ccccttactg ctgttctgga ggtatggagat caacctgcag accgacctgc 120

agagcgtatg caggacgaca tttcaactga gcatcatccc ttttatgatc ccgtcaaacg 180

gtgttgcaag tacgggtgga catgcttgct aggatgcact ctttgtgatt gttgaccagt 240

tttgttatcg cggcctcgtc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 339

<211> 70

<212> PRT

<213> Conus omaria

<400> 339

Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
 1 5 10 15

Pro Leu Thr Ala Val Leu Glu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Thr Glu His His Pro Phe Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Lys Tyr Gly Trp Thr Cys Leu Leu Gly
 50 55 60

Cys Thr Pro Cys Asp Cys
 65 70

<210> 340
<211> 17
<212> PRT
<213> Conus omaria

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 14 Pro or Hyp; Xaa at residue 6 is Trp or bromo-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 340
Cys Cys Lys Xaa Gly Xaa Thr Cys Leu Leu Gly Cys Thr Xaa Cys Cys Asp
1 5 10 15

Cys

<210> 341
<211> 290
<212> DNA
<213> Conus omaria

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<400> 341  
caagaggat cgatagcagt tcatgatgtc tatactggga gtcttgttga tcatctgtct 60  
acttctgtgt ccccttactg ctgttctgga ggatggagat caacctgcag accgacacctg 120  
agagcgtatg caggacggca tttcatctga acatcatccc tttttggatc ccgtcaaacg 180  
gtgttgccat ctattggcat gccgcttgg atgctcgccct tgttgttgg gaccagctt 240  
qttatcqcgq cctcatcaag tqtctaataqaa ataagtaaaaa cqattqcaqt 290
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<210> 342
<211> 69
<212> PRT
<213> *Conus omaria*

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<400> 342
Met Met Ser Ile Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
1           5                 10                15
Pro Leu Thr Ala Val Leu Glu Asp Gly Asp Gln Pro Ala Asp Arg Pro
          20                 25                30

```

Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu His His Pro Phe Leu
35 40 45

Asp Pro Val Lys Arg Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys
50 55 60

Ser Pro Cys Cys Trp
65

<210> 343
<211> 16
<212> PRT
<213> *Conus omaria*

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 13 is Pro or Hyp; Xaa at residue 16 is Trp or bromo-Tr

<400> 343
 Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Xaa Cys Cys Xaa
 1 5 10 15

<210> 344
 <211> 293
 <212> DNA
 <213> Conus omaria

<400> 344
 caagaaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga tcatactgtct 60
 acttttttgt ccccttactg ctgttccgca ggatggagat caacctgcag accgacctgc 120
 agagcgtatg cagggcggca tttcatctga acatcatccc ttttttgate ccgtcaaacg 180
 gtgttgcagg tacgggtgga catgctggct aggatgcact ccctgtggtt gttgaccaggc 240
 tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 345
 <211> 70
 <212> PRT
 <213> Conus omaria

<400> 345
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Cys
 1 5 10 15
 Pro Leu Thr Ala Val Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Gly Gly Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Arg Tyr Gly Trp Thr Cys Trp Leu Gly
 50 55 60
 Cys Thr Pro Cys Gly Cys
 65 70

<210> 346
 <211> 17
 <212> PRT
 <213> Conus omaria

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp; Xaa at residue 6 and 9 is Trp or
 bromo-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 346
 Cys Cys Arg Xaa Gly Xaa Thr Cys Xaa Leu Gly Cys Thr Xaa Cys Gly
 1 5 10 15

Cys

<210> 347
 <211> 293
 <212> DNA
 <213> Conus episcopatus

<400> 347
caagaaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccatctgtct 60
acttctgttt tcccttattt ctgttccgct tgatggagat caacatgcag accaacacctgc 120
agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatattgc ctgtcaaacg 180
gtgttgcgt gaggacgaat gcaacagttc atgctggct tttttttttt ggtgatcagc 240
tttggatcg cggcctgatc aagtgtataa tgaataagta aaacgattgc agt 293

<210> 348

<211> 70

<212> PRT

<213> Conus episcopatus

<400> 348
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30
Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
35 40 45

Met Pro Val Lys Arg Cys Cys Asp Glu Asp Glu Cys Asn Ser Ser Cys
50 55 60

Trp Pro Cys Cys Trp Gly
65 70

<210> 349

<211> 16

<212> PRT

<213> Conus episcopatus

<220>
<221> PEPTIDE
<222> (1)...(16)
<223> Xaa at residue 4 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 349
Cys Cys Asp Xaa Asp Xaa Cys Asn Ser Ser Cys Xaa Xaa Cys Cys Xaa
1 5 10 15

<210> 350

<211> 293

<212> DNA

<213> Conus episcopatus

<400> 350
caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccatctgtct 60
acttctgttt tcccttattt ctgttccgct tgatggagat caacatgcag accaacacctgc 120
agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatattgc ctgtcaaacg 180
gtgttgcgt gaggacgaat gcagcgttc atgctggct tttttttttt gatgagcagc 240
tttggatcg cggcctgatc aagtgtataa tgaataagta aaacgattgc agt 293

<210> 351

<211> 70

<212> PRT

<213> Conus episcopatus

<400> 351

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Leu	Phe
1				5				10						15	

Ser	Leu	Ile	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	His	Ala	Asp	Gln	Pro
				20				25				30			

Ala	Glu	Arg	Leu	Gln	Gly	Asp	Ile	Leu	Ser	Glu	Lys	His	Pro	Leu	Phe
	35				40					45					

Met	Pro	Val	Lys	Arg	Cys	Cys	Asp	Glu	Asp	Glu	Cys	Ser	Ser	Ser	Cys
50					55				60						

Trp	Pro	Cys	Cys	Trp	Gly
65				70	

<210> 352

<211> 16

<212> PRT

<213> Conus episcopatus

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 4 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 352

Cys	Cys	Asp	Xaa	Asp	Xaa	Cys	Ser	Ser	Ser	Cys	Xaa	Xaa	Cys	Cys	Xaa
1				5				10				15			

<210> 353

<211> 290

<212> DNA

<213> Conus episcopatus

<400> 353

caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttggta ccatctgtct 60

acttctgttt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120

agagcgctcg cagggcgaca ttttatctga aaagcatccc ttatttaatc ccgtcaaacg 180

gtgttgcccc gcggcgccat gtgccatggg atgcaagcct tgggtggat gagcagctt 240

gttatcgtgg cctcatcaag tgtctaatga ataagtaaaa cgattgcagt 290

<210> 354

<211> 69

<212> PRT

<213> Conus episcopatus

<400> 354

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Phe
1				5				10				15		

Ser	Leu	Thr	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	His	Ala	Asp	Gln	Pro
				20				25				30			

Ala	Glu	Arg	Leu	Gln	Gly	Asp	Ile	Leu	Ser	Glu	Lys	His	Pro	Leu	Phe
	35				40					45					

Asn Pro Val Lys Arg Cys Cys Pro Ala Ala Ala Cys Ala Met Gly Cys
 50 55 60

Lys Pro Cys Cys Gly
 65

<210> 355
 <211> 15
 <212> PRT
 <213> Conus episcopatus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 and 13 is Pro or Hyp

<400> 355
 Cys Cys Xaa Ala Ala Ala Cys Ala Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 356
 <211> 295
 <212> DNA
 <213> Conus aulicus

<400> 356
 caagaggat cgatacgagt tcatgatgtc taaaactggga gtcttgttga ccatctgtct 60
 gcttctgttt tcggttactg ctcttccgcc ggatggagat caacctgcag accgagctgc 120
 agagcgttagg caggtcgagc agcatcccggt gtttgatcat gaaagaggggt gttgctcgcc 180
 accatgccac agtatttgcg ctgctttctg ttgcgggtga tgataacgtg ttgatgaccc 240
 actttgtcat cacggctgctg tcaagtgtct aatgaataag taaaatgatt gcagt 295

<210> 357
 <211> 65
 <212> PRT
 <213> Conus aulicus

<400> 357
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Val Thr Ala Leu Pro Pro Asp Gly Asp Gln Pro Ala Asp Arg Ala
 20 25 30
 Ala Glu Arg Arg Gln Val Glu Gln His Pro Val Phe Asp His Glu Arg
 35 40 45
 Gly Cys Cys Ser Pro Pro Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 50 55 60

Gly
 65

<210> 358
 <211> 16
 <212> PRT
 <213> Conus aulicus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5 and 6 is Pro or Hyp

<400> 358
 Gly Cys Cys Ser Xaa Xaa Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 1 5 10 15

<210> 359
<211> 290
<212> DNA
<213> Conus aulicus

<400> 359
 caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttaatc ccgtcaaacg 180
 gtgttgcga ccggtgccat gtgccatggg atgcaagcct tggat gagcagctt 240
 gttatcgtgg cctcatcaag tgtctaata 290

<210> 360
<211> 69
<212> PRT
<213> Conus aulicus

<400> 360
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45

Asn Pro Val Lys Arg Cys Cys Arg Pro Val Ala Cys Ala Met Gly Cys
 50 55 60

Lys Pro Cys Cys Gly
 65

<210> 361
<211> 15
<212> PRT
<213> Conus aulicus

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 361
 Cys Cys Arg Xaa Val Ala Cys Ala Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 362
<211> 290
<212> DNA
<213> Conus aulicus

<400> 362
 caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttgttga tcatctgtct 60
 acttctgtct ccccttactg ctgttccgct ggatggagat caacatgcag accgacacctgc 120

agagcgtatg caggacgaca tttcatctga acatcaaccc atgttgatg ccatcagaca 180
 gtgttgcccg gcgggtggcat gcgcctatggg atgcgagcct tgttgtggat gaccagctt 240
 gttatcgccg cctcatcaag tgtctaatga ataagtaaa tgattgcagt 290

 <210> 363
 <211> 69
 <212> PRT
 <213> Conus aulicus

 <400> 363
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Ser
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His Gln Pro Met Phe
 35 40 45
 Asp Ala Ile Arg Gln Cys Cys Pro Ala Val Ala Cys Ala Met Gly Cys
 50 55 60
 Glu Pro Cys Cys Gly
 65

 <210> 364
 <211> 16
 <212> PRT
 <213> Conus aulicus

 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 13 is Glu or
 gamma-carboxy Glu; Xaa at residue 4 and 14 is Pro or Hy

 <400> 364
 Xaa Cys Cys Xaa Ala Val Ala Cys Ala Met Gly Cys Xaa Xaa Cys Cys
 1 5 10 15

 <210> 365
 <211> 293
 <212> DNA
 <213> Conus aureus

 <400> 365
 caagaaggat cgatagcagt tcatgatgtc taaaactggga gccttggat ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacatgc 120
 agagcgtctg catgaccgc ttccaactga aaatcatccc ttatatgatc ccgtcaaacg 180
 gtgttgcgt gattcgaaat gcgactattc ttgctggct tgctgttatt ttggataacc 240
 ttgttatcg cggcctcata aagtgtcaaa tgaataagta aaacgattgc agt 293

 <210> 366
 <211> 71
 <212> PRT
 <213> Conus aureus

 <400> 366

Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln His
 20 25 30

Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Ile Phe Gly
 65 70

<210> 367

<211> 17

<212> PRT

<213> Conus aureus

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 367

Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15

Phe

<210> 368

<211> 290

<212> DNA

<213> Conus aureus

<400> 368

caagaggat cgatagcagt tcatgatgtc taaaactggga gccttgttga ccatctgtct 60

acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacctgc 120

agagcgctcg caggaccgca ttccaactga aaatcatccc ttatttgatc cgaacaaacg 180

gtgttgcaat gattggaaat gcgacgattc atgctggct tgctgttatg gataaccttt 240

gttatcgccgg cctcatcaag tgtcaaattga ataagtaaaa cgattgcagt 290

<210> 369

<211> 70

<212> PRT

<213> Conus aureus

<400> 369

Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Asp Arg Ile Pro Thr Glu Asn His Pro Leu Phe
 35 40 45

Asp Pro Asn Lys Arg Cys Cys Asn Asp Trp Glu Cys Asp Asp Ser Cys
 50 55 60

Trp Pro Cys Cys Tyr Gly
 65 70

<210> 370

<211> 16

<212> PRT

<213> Conus aureus

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 5 and 12 is Trp or bromo-Trp; Xaa at residue 16 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 370

Cys Cys Asn Asp Xaa Xaa Cys Asp Asp Ser Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 371

<211> 310

<212> DNA

<213> Conus consors

<400> 371

caagaggat cgatacgagt tcatgatgtc taaaactggga gtcttgttga ccatctgttt 60

gcttctgttt ccccttaactg ctcttccaat ggatggagat caatctgttag accgacacctgc 120

agagcgtatg caggacgaca tttcatctga gctgcattccc ttgttcaatc agaaaagaat 180

gtgttgcggc gaaggtgcgc catgccccag ctatttcaga aacagtcaaa tttgtcattg 240

ttgttaaatg acaacgtgtc gatgaccaac ttcgtttatca cgactaatga ataagtaaaa 300

tgatttgcagt 310

<210> 372

<211> 74

<212> PRT

<213> Conus consors

<400> 372

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Leu His Pro Leu Phe
 35 40 45

Asn Gln Lys Arg Met Cys Cys Gly Glu Gly Ala Pro Cys Pro Ser Tyr
 50 55 60

Phe Arg Asn Ser Gln Ile Cys His Cys Cys
 65 70

<210> 373

<211> 22

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 373

Met	Cys	Cys	Gly	Xaa	Gly	Ala	Xaa	Cys	Xaa	Ser	Xaa	Phe	Arg	Asn	Ser
1															

5 10

15

Gln Ile Cys His Cys Cys
20

<210> 374

<211> 315

<212> DNA

<213> Conus consors

<400> 374

taagaggat	cgatagcagt	tcatgatgtc	taaactggga	gtcttgttga	ccatctgtct	60
gcttctgttt	ccccttattt	ctcttccaat	ggatggagat	caacctgcag	accgacactgc	120
agagcgtatg	caggacgaca	tttcatctca	gcagcatccc	ttgtttgata	agagaggccg	180
ctgttgcgtat	gtgccgaacg	catgctccgg	cagatggtgc	agagatcacg	cacaatgttg	240
cgatgacga	taacgtgttg	atgaccaact	ttgtgatcac	ggctacatca	agtgaataag	300
taaaaacgatt	gcagt					315

<210> 375

<211> 74

<212> PRT

<213> Conus consors

<400> 375

Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Leu	Phe
1															

5 10

15

Pro	Leu	Ile	Ala	Leu	Pro	Met	Asp	Gly	Asp	Gln	Pro	Ala	Asp	Arg	Pro

20

25

30

Ala	Glu	Arg	Met	Gln	Asp	Asp	Ile	Ser	Ser	Gln	Gln	His	Pro	Leu	Phe

35

40

45

Asp	Lys	Arg	Gly	Arg	Cys	Cys	Asp	Val	Pro	Asn	Ala	Cys	Ser	Gly	Arg

50

55

60

Trp	Cys	Arg	Asp	His	Ala	Gln	Cys	Cys	Gly

65

70

<210> 376

<211> 22

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Tr

<400> 376
 Gly Arg Cys Cys Asp Val Xaa Asn Ala Cys Ser Gly Arg Xaa Cys Arg
 1 5 10 15

Asp His Ala Gln Cys Cys
 20

<210> 377

<211> 322

<212> DNA

<213> Conus consors

<400> 377
 caagaggat cgatagcagt tcatgatgtc taaaactggga gtcttggta ctgtctgttt 60
 gcttctgttt ccccttactg ctcttccgtt ggatggagat caacctgcag accaacacctgc
 agagcgtatg caggacgaca tttcatctga gcagcatccc ttgtttgata agagacaaaag 120
 gtgttgcact gggagaagg ggtcatgctc cggtaaagca tgcaaaagtc tcaaattgttg
 ctctggacga taacgtgttg atgaccaact ttgttatcac ggctacgtca agtgtctagt 180
 240
 gaataagttaa aacgattgca gt 300
 322

<210> 378

<211> 76

<212> PRT

<213> Conus consors

<400> 378
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly
 50 55 60

Lys Ala Cys Lys Ser Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 379

<211> 23

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu

<400> 379
 Xaa Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Ser Leu Lys Cys Cys Ser
 20

<210> 380

<212> PRT
<213> Conus atlanticus

<400> 384
Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe Cys Val Pro Cys Cys
1 5 10 15

<210> 385
<211> 14
<212> PRT
<213> Conus arenatus

<400> 385
Cys Cys Glu Arg Pro Cys Asn Ile Gly Cys Val Pro Cys Cys
1 5 10

<210> 386
<211> 16
<212> PRT
<213> Conus bandus

<400> 386
Cys Cys Asn Trp Pro Cys Ser Met Gly Cys Ile Pro Cys Cys Tyr Tyr
1 5 10 15

<210> 387
<211> 15
<212> PRT
<213> Conus betulinus

<400> 387
Cys Cys Glu Leu Pro Cys His Gly Cys Val Pro Cys Cys Trp Pro
1 5 10 15

<210> 388
<211> 16
<212> PRT
<213> Conus betulinus

<400> 388
Cys Cys Gly Leu Pro Cys Asn Gly Cys Val Pro Cys Cys Trp Pro Ser
1 5 10 15

<210> 389
<211> 18
<212> PRT
<213> Conus betulinus

<400> 389
Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Pro Cys Cys Pro Asn Trp
1 5 10 15

Pro Ala

<210> 390
<211> 14
<212> PRT
<213> Conus betulinus

<400> 390
Cys Cys Lys Gln Ser Cys Thr Thr Cys Met Pro Cys Cys Trp
1 5 10

<210> 391
<211> 14

<212> PRT

<213> Conus betulinus

<220>

<221> PEPTIDE

<222> (1)...(14)

<223> Xaa is Glu or gamma-carboxy Glu

<400> 391

Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Pro Cys Cys
1 5 10

<210> 392

<211> 14

<212> PRT

<213> Conus betulinus

<400> 392

Cys Cys Glu Gln Ser Cys Thr Thr Cys Met Pro Cys Cys Trp
1 5 10

<210> 393

<211> 18

<212> PRT

<213> Conus characteristicus

<400> 393

Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser Cys His Gly Ser Cys Cys
1 5 10 15

Tyr Lys

<210> 394

<211> 15

<212> PRT

<213> Conus characteristicus

<400> 394

Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Lys Pro Cys Cys
1 5 10 15

<210> 395

<211> 17

<212> PRT

<213> Conus characteristicus

<400> 395

Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Met
1 5 10 15

Phe

<210> 396

<211> 14

<212> PRT

<213> Conus characteristicus

<400> 396

Cys Cys Arg Arg Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
1 5 10

<210> 397

<211> 16

<212> PRT

<213> Conus textile

<400> 397
 Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Lys Pro Cys Cys Gly
 1 5 10 15

<210> 398
 <211> 19
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa is Hyp

<400> 398
 Ser Lys Gln Cys Cys His Leu Ala Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Asn

<210> 399
 <211> 15
 <212> PRT
 <213> Conus capitaneus

<400> 399
 Ser Cys Cys Arg Asp Cys Gly Glu Asp Cys Val Gly Cys Cys Arg
 1 5 10 15

<210> 400
 <211> 16
 <212> PRT
 <213> Conus coronatus

<400> 400
 Cys Cys Asp Trp Pro Cys Ile Pro Gly Cys Thr Pro Cys Cys Leu Pro
 1 5 10 15

<210> 401
 <211> 18
 <212> PRT
 <213> Conus dalli

<400> 401
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Leu Ser

<210> 402
 <211> 17
 <212> PRT
 <213> Conus dalli

<400> 402
 Glx Gln Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Glu Pro Cys
 1 5 10 15

Cys

<210> 403
 <211> 16
 <212> PRT
 <213> Conus dalli

<400> 403
 Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys Thr Pro Cys Cys Trp
 1 5 10 15

<210> 404
 <211> 14
 <212> PRT
 <213> Conus distans

<400> 404
 Glx Cys Cys Val His Pro Cys Pro Cys Thr Pro Cys Cys Arg
 1 5 10

<210> 405
 <211> 14
 <212> PRT
 <213> Conus figulinus

<400> 405
 Cys Cys Pro Trp Pro Cys Asn Ile Gly Cys Val Pro Cys Cys
 1 5 10

<210> 406
 <211> 14
 <212> PRT
 <213> Conus figulinus

<400> 406
 Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Pro Cys Cys Pro
 1 5 10

<210> 407
 <211> 15
 <212> PRT
 <213> Conus figulinus

<400> 407
 Cys Cys Arg Trp Pro Cys Pro Ala Arg Cys Gly Ser Cys Cys Leu
 1 5 10 15

<210> 408
 <211> 16
 <212> PRT
 <213> Conus figulinus

<400> 408
 Cys Cys Glu Leu Ser Arg Cys Leu Gly Cys Val Pro Cys Cys Thr Ser
 1 5 10 15

<210> 409
 <211> 16
 <212> PRT
 <213> Conus figulinus

<400> 409
 Cys Cys Glu Leu Ser Lys Cys His Gly Cys Val Pro Cys Cys Ile Pro
 1 5 10 15

<210> 410
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 410

Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Val Pro
 1 5 10 15

<210> 411
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 411
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Leu Thr
 1 5 10 15

<210> 412
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 412

Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Val Pro
 1 5 10 15

<210> 413
 <211> 17
 <212> PRT
 <213> Conus gloriamaris

<400> 413
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Met
 1 5 10 15

Phe

<210> 414
 <211> 17
 <212> PRT
 <213> Conus gloriamaris

<400> 414
 Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Pro Cys Cys
 1 5 10 15

Trp

<210> 415
 <211> 16
 <212> PRT
 <213> Conus gloriamaris

<400> 415
 Cys Cys Ser Trp Asp Val Cys Asp His Pro Ser Cys Thr Cys Cys Gly
 1 5 10 15

<210> 416
 <211> 13
 <212> PRT
 <213> Conus laterculatus

<400> 416
 Cys Cys Asp Trp Pro Cys Ser Gly Cys Ile Pro Cys Cys
 1 5 10

<210> 417
 <211> 19
 <212> PRT
 <213> Conus leopardus

<400> 417
 Glx Ile Asn Cys Cys Pro Trp Pro Cys Pro Ser Thr Cys Arg His Gln
 1 5 10 15

Cys Cys His

<210> 418
 <211> 19
 <212> PRT
 <213> Conus lividus

<400> 418
 Glx Ile Asn Cys Cys Pro Trp Pro Cys Pro Asp Ser Cys His Tyr Gln
 1 5 10 15

Cys Cys His

<210> 419
 <211> 14
 <212> PRT
 <213> Conus marmoreus

<400> 419
 Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His Pro Cys Cys
 1 5 10

<210> 420
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<400> 420
 Glu Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Pro Cys Cys
 1 5 10 15

Val

<210> 421
 <211> 19
 <212> PRT
 <213> Conus marmoreus

<400> 421
 Ser Lys Gln Cys Cys His Leu Pro Ala Cys Arg Phe Gly Cys Thr Pro
 1 5 10 15

Cys Cys Trp

<210> 422
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<400> 422
 Met Gly Cys Cys Pro Phe Pro Cys Lys Thr Ser Cys Thr Thr Leu Cys
 1 5 10 15

Cys

<210> 423
 <211> 14
 <212> PRT
 <213> Conus musicus

<400> 423

Ala Cys Cys Glu Gln Ser Cys Thr Thr Cys Phe Pro Cys Cys
 1 5 10

<210> 424

<211> 15

<212> PRT

<213> Conus nobilis

<400> 424

Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe Cys Val Pro Cys Cys
 1 5 10 15

<210> 425

<211> 14

<212> PRT

<213> Conus pulicarius

<400> 425

Cys Cys Asn Ser Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10

<210> 426

<211> 17

<212> PRT

<213> Conus quercinus

<400> 426

Glx Arg Cys Cys Gln Trp Pro Cys Pro Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Thr

<210> 427

<211> 18

<212> PRT

<213> Conus quercinus

<400> 427

Glx Arg Cys Cys Arg Trp Pro Cys Pro Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Tyr Arg

<210> 428

<211> 18

<212> PRT

<213> Conus quercinus

<400> 428

Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser Cys His Gly Ser Cys Cys
 1 5 10 15

Tyr Lys

<210> 429

<211> 15

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa is Hyp

<400> 429

Cys Cys Ser Gln Asp Cys Leu Val Cys Ile Xaa Cys Cys Pro Asn
 1 5 10 15

<210> 430

<211> 15

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa is Hyp

<400> 430

Cys Cys Ser Arg His Cys Trp Val Cys Ile Xaa Cys Cys Pro Asn
 1 5 10 15

<210> 431

<211> 16

<212> PRT

<213> Conus rattus

<400> 431

Glx Thr Cys Cys Ser Asn Cys Gly Glu Asp Cys Asp Gly Cys Cys Gln
 1 5 10 15

<210> 432

<211> 20

<212> PRT

<213> Conus striatus

<400> 432

Glx Asn Cys Cys Asn Gly Gly Cys Ser Ser Lys Trp Cys Arg Asp His
 1 5 10 15

Ala Arg Cys Cys

20

<210> 433

<211> 12

<212> PRT

<213> Conus textile

<220>

<221> PEPTIDE

<222> (1)..(12)

<223> Xaa is Hyp

<400> 433

Cys Cys Arg Thr Cys Phe Gly Cys Thr Xaa Cys Cys
 1 5 10

<210> 434

<211> 14

<212> PRT

<213> Conus tessulatus

<400> 434

Cys Cys His Lys Cys Tyr Met Gly Cys Ile Pro Cys Cys Ile
 1 5 10

<210> 435

<211> 18

<212> PRT

<213> Conus tessulatus

<400> 435
 Lys Cys Cys Arg Pro Pro Cys Ala Met Ser Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Tyr

<210> 436
 <211> 23
 <212> PRT
 <213> Conus betulinus

<400> 436
 Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Phe Val Met Ile Thr Cys
 20

<210> 437
 <211> 23
 <212> PRT
 <213> Conus betulinus

<400> 437
 Arg Cys Cys Arg Trp Pro Cys Pro Ser Arg Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Phe Val Met Ile Thr Cys
 20

<210> 438
 <211> 15
 <212> PRT
 <213> Conus textile

<400> 438
 Phe Cys Cys Asp Ser Asn Trp Cys His Asp Cys Glu Cys Cys Tyr
 1 5 10 15

<210> 439
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<400> 439
 Cys Cys His Trp Asn Trp Cys Asp His Leu Cys Ser Cys Cys Gly Ser
 1 5 10 15

<210> 440
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

<400> 440
 Asp Cys Cys Xaa Leu Pro Ala Cys Pro Phe Gly Cys Asn Xaa Cys Cys
 1 5 10 15

<210> 441
 <211> 16

<212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

<400> 441
 Cys Cys Ala Pro Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 442
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

<400> 442
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 443
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<400> 443
 Cys Cys Ala Pro Ser Ala Cys Arg Leu Gly Cys Arg Pro Cys Cys Arg
 1 5 10 15

<210> 444
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa is Hyp

<400> 444
 Gly Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15

Val

<210> 445
 <211> 15
 <212> PRT
 <213> Conus textile

<400> 445
 Cys Cys Ser Trp Asp Val Cys Asp His Pro Ser Cys Thr Cys Cys
 1 5 10 15

<210> 446
 <211> 16
 <212> PRT
 <213> Conus textile

<400> 446
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Arg Tyr Leu Cys Cys
 1 5 10 15

<210> 447
 <211> 17
 <212> PRT
 <213> Conus aureus

<400> 447
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Phe

<210> 448
 <211> 16
 <212> PRT
 <213> Conus aureus

<400> 448
 Cys Cys Asn Asp Trp Glu Cys Asp Asp Ser Cys Trp Pro Cys Cys Tyr
 1 5 10 15

<210> 449
 <211> 16
 <212> PRT
 <213> Conus ammiralis

<400> 449
 Arg Cys Cys Arg Phe Pro Cys Pro Asp Thr Cys Arg His Leu Cys Cys
 1 5 10 15

<210> 450
 <211> 12
 <212> PRT
 <213> Conus ammiralis

<400> 450
 Cys Cys Met Thr Cys Phe Gly Cys Thr Pro Cys Cys
 1 5 10

<210> 451
 <211> 18
 <212> PRT
 <213> Conus ammiralis

<400> 451
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Phe Ser

<210> 452
 <211> 13
 <212> PRT
 <213> Conus ammiralis

<400> 452
 Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Pro Cys Cys
 1 5 10

<210> 453
 <211> 16
 <212> PRT

<213> Conus ammiralis

<400> 453
 Cys Cys Asp Asp Ser Glu Cys Gly Tyr Ser Cys Trp Pro Cys Cys Tyr
 1 5 10 15

<210> 454

<211> 16

<212> PRT

<213> Conus aulicus

<400> 454
 Gly Cys Cys Ser Pro Pro Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 1 5 10 15

<210> 455

<211> 15

<212> PRT

<213> Conus aulicus

<400> 455
 Cys Cys Arg Pro Val Ala Cys Ala Met Gly Cys Lys Pro Cys Cys
 1 5 10 15

<210> 456

<211> 16

<212> PRT

<213> Conus aulicus

<400> 456
 G1x Cys Cys Pro Ala Val Ala Cys Ala Met Gly Cys Glu Pro Cys Cys
 1 5 10 15

<210> 457

<211> 18

<212> PRT

<213> Conus emaciatus

<400> 457

Cys Cys Ser Arg Asp Cys Ser Val Cys Ile Pro Cys Cys Pro Tyr Gly
 1 5 10 15

Ser Pro

<210> 458

<211> 16

<212> PRT

<213> Conus episcopatus

<400> 458

Cys Cys Asp Glu Asp Glu Cys Asn Ser Ser Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 459

<211> 16

<212> PRT

<213> Conus episcopatus

<400> 459

Cys Cys Asp Glu Asp Glu Cys Ser Ser Ser Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 460

<211> 15

<212> PRT

<213> Conus episcopatus

<400> 460
 Cys Cys Pro Ala Ala Ala Cys Ala Met Gly Cys Lys Pro Cys Cys
 1 5 10 15

<210> 461

<211> 16

<212> PRT

<213> Conus omaria

<400> 461
 Cys Cys Asp Glu Glu Glu Cys Ser Ser Ala Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 462

<211> 16

<212> PRT

<213> Conus omaria

<400> 462
 Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Pro Cys Cys Trp
 1 5 10 15

<210> 463

<211> 12

<212> PRT

<213> Conus spurius

<400> 463
 Cys Cys Pro Arg Cys Ser Glu Cys Asn Pro Cys Cys
 1 5 10

<210> 464

<211> 16

<212> PRT

<213> Conus pennaceus

<400> 464
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Lys Tyr Leu Cys Cys
 1 5 10 15

<210> 465

<211> 19

<212> PRT

<213> Conus flavidus

<400> 465
 Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Ser Ser

<210> 466

<211> 14

<212> PRT

<213> Conus pulicarius

<400> 466

Cys Cys Lys Leu Leu Cys Gly Cys Thr Pro Cys Cys His Ile
 1 5 10

<210> 467

<211> 15

<212> PRT

<213> Conus ebraceus

<400> 467

Cys	Cys	Glu	Gln	Pro	Cys	Tyr	Met	Gly	Cys	Ile	Pro	Cys	Cys	Phe
1					5				10					15

<210> 468

<211> 15

<212> PRT

<213> Conus ebraceus

<400> 468

Cys	Cys	Ala	Gln	Pro	Cys	Tyr	Met	Gly	Cys	Ile	Pro	Cys	Cys	Phe
1					5				10					15

<210> 469

<211> 14

<212> PRT

<213> Conus pulicarius

<400> 469

Cys	Cys	Val	Ser	Cys	Tyr	Met	Gly	Cys	Ile	Pro	Cys	Cys	Phe
1					5				10				

<210> 470

<211> 16

<212> PRT

<213> Conus miliaris

<400> 470

Cys	Cys	Asp	Trp	Pro	Cys	Ser	Ala	Gly	Cys	Tyr	Pro	Cys	Cys	Phe	Pro
1					5				10					15	

<210> 471

<211> 16

<212> PRT

<213> Conus miliaris

<400> 471

Gly	Cys	Cys	Pro	Pro	Met	Cys	Thr	Pro	Cys	Phe	Pro	Cys	Cys	Phe	Arg
1					5				10					15	

<210> 472

<211> 23

<212> PRT

<213> Conus rattus

<400> 472

Arg	Gly	Cys	Cys	Ala	Pro	Pro	Arg	Lys	Cys	Lys	Asp	Arg	Ala	Cys	Lys
1					5				10					15	

Pro Ala Arg Cys Cys Gly Pro

20

<210> 473

<211> 22

<212> PRT

<213> Conus stercusmuscarum

<400> 473

Glx	Arg	Cys	Cys	Asn	Gly	Arg	Arg	Gly	Cys	Ser	Ser	Arg	Trp	Cys	Arg
1					5				10					15	

Asp His Ser Arg Cys Cys

20

<210> 474
<211> 22
<212> PRT
<213> Conus consors

<400> 474
Gly Arg Cys Cys Asp Val Pro Asn Ala Cys Ser Gly Arg Trp Cys Arg
1 5 10 15

Asp His Ala Gln Cys Cys
20

<210> 475
<211> 23
<212> PRT
<213> Conus consors

<400> 475
Glx Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Ser Leu Lys Cys Cys Ser
20

<210> 476
<211> 22
<212> PRT
<213> Conus aurisiacus

<400> 476
Met Cys Cys Gly Glu Gly Arg Lys Cys Pro Ser Tyr Phe Arg Asn Ser
1 5 10 15

Gln Ile Cys His Cys Cys
20

<210> 477
<211> 19
<212> PRT
<213> Conus aurisiacus

<400> 477
Cys Cys Arg Trp Pro Cys Pro Arg Gln Ile Asp Gly Glu Tyr Cys Gly
1 5 10 15

Cys Cys Leu

<210> 478
<211> 22
<212> PRT
<213> Conus bullatus

<400> 478
Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr Trp Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 479
<211> 21
<212> PRT
<213> Conus characteristicus

<400> 479

Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp Asn Phe
 1 5 10 15

Ile Cys Gly Cys Cys
 20

<210> 480

<211> 23

<212> PRT

<213> Conus circumcisus

<400> 480

Arg Lys Cys Cys Gly Lys Asp Gly Pro Cys Pro Lys Tyr Phe Lys Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 481

<211> 20

<212> PRT

<213> Conus ermineus

<400> 481

Cys Cys Ser Trp Pro Cys Pro Arg Tyr Ser Asn Gly Lys Leu Val Cys
 1 5 10 15

Phe Cys Cys Leu
 20

<210> 482

<211> 21

<212> PRT

<213> Conus magus

<400> 482

Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp Asn Phe
 1 5 10 15

Ile Cys Gly Cys Cys
 20

<210> 483

<211> 22

<212> PRT

<213> Conus magus

<400> 483

Met Cys Cys Gly Glu Ser Ala Pro Cys Pro Ser Tyr Phe Arg Asn Ser
 1 5 10 15

Gln Ile Cys His Cys Cys
 20

<210> 484

<211> 22

<212> PRT

<213> Conus magus

<400> 484

Glx Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Thr Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys
 20

<210> 485
<211> 23
<212> PRT
<213> Conus magus

<400> 485
Glx Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 486
<211> 23
<212> PRT
<213> Conus striatus

<400> 486
Glx Lys Cys Cys Gly Glu Gly Ser Ser Cys Pro Lys Tyr Phe Lys Asn
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 487
<211> 22
<212> PRT
<213> Conus magus

<400> 487
Glx Lys Cys Cys Ser Gly Gly Ser Cys Pro Leu Tyr Phe Arg Asp Arg
1 5 10 15

Leu Ile Cys Pro Cys Cys
20

<210> 488
<211> 23
<212> PRT
<213> Conus stercusmuscarum

<400> 488
Glx Lys Cys Cys Gly Pro Gly Ala Ser Cys Pro Arg Tyr Phe Lys Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 489
<211> 22
<212> PRT
<213> Conus consors
<400> 489
Met Cys Cys Gly Glu Gly Ala Pro Cys Pro Ser Tyr Phe Arg Asn Ser
1 5 10 15

Gln Ile Cys His Cys Cys
20

<210> 490
<211> 23
<212> PRT
<213> Conus aurisiacus

<400> 490
 Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 491
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

<400> 491
 Glx Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 492
 <211> 23
 <212> PRT
 <213> Conus bullatus

<400> 492
 Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Glu Cys Gly Arg Trp Cys
 1 5 10 15

Arg Asp His Ser Arg Cys Cys
 20

<210> 493
 <211> 23
 <212> PRT
 <213> Conus bullatus

<400> 493
 Val Gly Asp Arg Cys Cys Lys Gly Lys Arg Gly Cys Gly Arg Trp Cys
 1 5 10 15

Arg Asp His Ser Arg Cys Cys
 20

<210> 494
 <211> 24
 <212> PRT
 <213> Conus bullatus

<400> 494
 Val Gly Glu Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys Gly Arg Trp
 1 5 10 15

Cys Arg Asp His Ser Arg Cys Cys
 20

<210> 495
 <211> 26
 <212> PRT
 <213> Conus bullatus

<400> 495
 Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg Gly Cys Ser
 1 5 10 15

Arg Trp Cys Arg Asp His Ser Arg Cys Cys

20

25

<210> 496
<211> 25
<212> PRT
<213> Conus bullatus

<400> 496
Val Gly Cys Cys Arg Pro Lys Pro Asn Gly Gln Met Met Cys Asp Arg
1 5 10 15

Trp Cys Glu Lys Asn Ser Arg Cys Cys
20 25

<210> 497
<211> 22
<212> PRT
<213> Conus characteristicus

<400> 497
Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Gln Cys Lys
1 5 10 15

Pro Gln Arg Cys Cys Ala
20

<210> 498
<211> 23
<212> PRT
<213> Conus lynceus

<400> 498
Gly Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Arg Asp Arg Ala Cys
1 5 10 15

Lys Pro Gln Arg Cys Cys Gly
20

<210> 499
<211> 22
<212> PRT
<213> Conus lynceus

<400> 499
Glx Arg Leu Cys Cys Gly Phe Pro Lys Ser Cys Arg Ser Arg Gln Cys
1 5 10 15

Lys Pro His Arg Cys Cys
20

<210> 500
<211> 22
<212> PRT
<213> Conus laterculatus

<400> 500
Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Arg Asp Arg Gln Cys Lys
1 5 10 15

Pro Ala Arg Cys Cys Gly
20

<210> 501
<211> 22
<212> PRT

<213> Conus laterculatus

<400> 501

Arg	Pro	Pro	Cys	Cys	Thr	Tyr	Asp	Gly	Ser	Cys	Leu	Lys	Glu	Ser	Cys
1					5				10				15		

Met Arg Lys Ala Cys Cys
20

<210> 502

<211> 22

<212> PRT

<213> Conus laterculatus

<400> 502

Arg	Pro	Pro	Cys	Cys	Thr	Tyr	Asp	Gly	Ser	Cys	Leu	Lys	Glu	Ser	Cys
1					5				10				15		

Lys Arg Lys Ala Cys Cys
20

<210> 503

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa is Hyp

<400> 503

Arg	Asp	Cys	Cys	Thr	Xaa	Xaa	Lys	Lys	Cys	Lys	Asp	Arg	Gln	Cys	Lys
1					5				10				15		

Xaa Gln Arg Cys Cys Ala
20

<210> 504

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa is Hyp

<400> 504

Arg	Asp	Cys	Cys	Thr	Xaa	Xaa	Arg	Lys	Cys	Lys	Asp	Arg	Arg	Cys	Lys
1					5				10				15		

Xaa Met Lys Cys Cys Ala
20

<210> 505

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa is Hyp

<400> 505
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Leu Lys Cys Cys Ala
 20

<210> 506
 <211> 22
 <212> PRT
 <213> Conus purpurascens

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 506
 Glx Arg Leu Cys Cys Gly Phe Xaa Lys Ser Cys Arg Ser Arg Gln Cys
 1 5 10 15

Lys Xaa His Arg Cys Cys
 20

<210> 507
 <211> 22
 <212> PRT
 <213> Conus magus

<400> 507
 Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Pro Gln Arg Cys Cys Ala
 20

<210> 508
 <211> 24
 <212> PRT
 <213> Conus marmoreus

<400> 508
 Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 509
 <211> 23
 <212> PRT
 <213> Conus nobilis

<400> 509
 Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 510
 <211> 24
 <212> PRT
 <213> Conus parius

<400> 510
 Arg Gly Gly Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 511

<211> 23

<212> PRT

<213> Conus parius

<400> 511

Arg Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15

Pro Ala Arg Cys Cys Gly Pro
 20

<210> 512

<211> 24

<212> PRT

<213> Conus radiatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa is Hyp

<400> 512

Leu Xaa Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Xaa Val Xaa Ala
 1 5 10 15

Cys Lys Arg Asn Xaa Cys Cys Thr
 20

<210> 513

<211> 24

<212> PRT

<213> Conus radiatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa is Hyp

<400> 513

Glx Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Xaa Val Xaa Ala Cys
 1 5 10 15

Arg Ser Lys Xaa Cys Cys Lys Ser
 20

<210> 514

<211> 24

<212> PRT

<213> Conus radiatus

<400> 514

Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 515
 <211> 23
 <212> PRT
 <213> Conus stercusmuscarum

<400> 515
 Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 516
 <211> 21
 <212> PRT
 <213> Conus tulipa

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa is Hyp

<400> 516
 His Gly Cys Cys Lys Gly Xaa Glu Gly Cys Ser Ser Arg Glu Cys Arg
 1 5 10 15

Xaa Gln His Cys Cys
 20

<210> 517
 <211> 21
 <212> PRT
 <213> Conus tulipa

<400> 517
 His Gly Cys Cys Glu Gly Pro Lys Gly Cys Ser Ser Arg Glu Cys Arg
 1 5 10 15

Pro Gln His Cys Cys
 20

<210> 518
 <211> 23
 <212> PRT
 <213> Conus wittigi

<400> 518
 Leu Pro Ser Cys Cys Asp Phe Glu Arg Leu Cys Val Val Pro Ala Cys
 1 5 10 15

Ile Arg His Gln Cys Cys Thr
 20

<210> 519
 <211> 17
 <212> PRT
 <213> Conus omaria

<400> 519
 Cys Cys Lys Tyr Gly Trp Thr Cys Leu Leu Gly Cys Thr Pro Cys Asp
 1 5 10 15

Cys

<210> 520

<211> 17

<212> PRT

<213> Conus omaria

<400> 520

Cys Cys Arg Tyr Gly Trp Thr Cys Trp Leu Gly Cys Thr Pro Cys Gly
1 5 10 15

Cys